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FIFTIETH ANNUAL REPORT
OF THE
CINCINNATI
CHAMBER OF COMMERCE
AND
MERCHANTS' EXCHANGE,
FOR THE
YEAR ENDING DECEMBER 31, 1898.



CINCINNATI:
THE OHIO VALLEY COMPANY, PRINTERS,
Nos. 317 to 323 Race Street.
1899.

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OFFICERS FOR 1898-99.

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Treasurer:

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Secretary:

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*Elected January 24, 1899, to fill the vacancy created by resignation of William B. Melish.
†Elected November 9, 1897, to fill the vacancy created by the death of William L. Hunt.

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1898-99.

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<i>Coal and Coke</i>	HENRY IMMENHORT, JR., R. J. KROGER, H. C. WHETSTONE, W. M. HUBBELL, JR., R. C. CROWTHERS, CHARLES JONES, JR.
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<i>Eggs</i>	DAVID S. DREIFUS, A. G. NORMAN, LOUIS ROMER, A. W. LETT, CHARLES W. SEEGER.
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<i>Oils, Cottonseed</i>	WALTER H. FIELD, E. S. GRANT, JOHN E. STONE.
<i>Oils, Linseed</i>	C. P. WAGNER, R. W. RICHEY.
<i>Peanuts</i>	W. W. BLAIR, JACOB WELLER.
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<i>Seeds</i>	J. CHAS. McCULLOUGH, ARTHUR O. EVANS, H. B. McCULLOUGH.
<i>Tallow and Grease</i>	JOHN E. STONE, MOSES MARIENTHAL, LUDWIG WISE.
<i>Tobacco</i>	LEE H. BROOKS, JOHN L. HITE, LOUIS KROHN.
<i>Whisky</i>	WM. N. HOBART, J. W. BILES, J. WALTER FREIBERG, OLIVER L. PERIN.
<i>Wool</i>	LUDWIG WISE, MOSES MARIENTHAL.

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1898-99.

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DELEGATES TO OHIO STATE BOARD OF COMMERCE—1898-99.

J. M. KENNEDY,

WM. V. EBERSOLE,

L. C. GOODALE,

A. H. McLEOD.

WM. H. DAVIS,

† INSPECTORS—1898-9.

****Grain and Hay :**

HOMER CHISMAN.

Flour :

MONROE IZOR.

Provisions :

JAMES O'NEILL.

† PUBLIC WEIGHERS—1898-99.

D. C. LAFFERTY,
G. H. HENNEKES,
R. E. SECRIST,

JAMES T. EARLE,

JAS. M. ARNOLD,
WM. McCALLISTER,
N. H. BIGGS,

JOHN M. MACDONALD, J. D. LINDSAY,
L. L. LATTA, H. McREYNOLDS,
W. W. ALEXANDER, JOHN S. FURLONG,

HENRY WEBER.

† COAL GAUGERS.—1898-99.

WINFIELD S. CARR,

HARRY RIGDON,

ISAAC W. GRUBBS,

D. B. SHUTTERLY.

PORK PACKERS' AND PROVISION DEALERS' ASSOCIATION
OF CINGINNATI.

OFFICERS FOR 1898-99.

President :

H. H. MEYER.

Vice-Presidents :

MATHEW RYAN,

FREDERICK SCHROTH,

WM. H. DAVIS.

Treasurer :

B. FRANK DAVIS.

Secretary :

CHARLES B. MURRAY.

* Not in attendance. ** Including Mill Feed.

† By action of the Board of Directors, October 13, 1896, Inspectors, Public Weighers, Measurers and Gaugers, by appointment of the Chamber of Commerce, are not allowed to inspect, weigh, measure or gauge any commodity in which they are directly or indirectly interested.

OFFICERS OF THE CHAMBER OF COMMERCE

FROM ITS ORGANIZATION.

Officers from October, 1839, to January, 1840*President*—Griffin Taylor.*Vice-Presidents*—R. G. Mitchell, Peter Neff, S. B. Findley, John Reeves, Thos. J. Adams, Jacob Strader.*Treasurer*—B. W. Hewson.*Secretary*—Henry Rockey.**Officers for 1840.***President*—Griffin Taylor.*Vice-Presidents*—R. G. Mitchell, John Reeves, Peter Neff, Thomas J. Adams, S. B. Findley, Samuel Trevor.*Treasurer*—B. W. Hewson.*Secretary*—Henry Rockey.**Officers for 1841.***President*—Lewis Whiteman.*Vice-Presidents*—Thomas J. Adams, S. B. Findley, Peter Neff, Samuel Trevor, R. G. Mitchell, S. O. Butler.*Treasurer*—B. W. Hewson.*Secretary*—Henry Rockey.**Officers for 1842.***President*—Roland G. Mitchell.*Vice-Presidents*—S. O. Butler, James Pullan, L. Worthington, Thomas J. Adams, Samuel Trevor, John Reeves.*Treasurer*—B. W. Hewson.*Secretary*—Henry Rockey.**Officers for 1843.***President*—Thomas J. Adams.*Vice-Presidents*—A. M. Taylor, R. W. Lee, Samuel Fosdick, James Pullan, R. B. Bowler, Nathan Sampson.*Treasurer*—S. C. Parkhurst.*Secretary*—Henry Rockey.**Officers for 1844.***President*—Thomas J. Adams.*Vice-Presidents*—M. R. Taylor, R. W. Lee, Calvin Fletcher, W. B. Alford, Jas. C. Hall, Nathan Sampson.*Treasurer*—S. C. Parkhurst.*Secretary*—Henry Rockey.**Officers for 1845.***President*—James C. Hall.*Vice-Presidents*—Benjamin Urner, Geo. H. Bates, George H. Hartwell, J. P. Tweed, R. W. Lee, Lewis Einstein.*Treasurer*—William Manser.*Secretary*—Henry Rockey.**Officers for 1846-47.***President*—James C. Hall.*Vice-Presidents*—R. W. Lee, Benjamin Urner, N. W. Thomas, Charles Hartshorne, L. Worthington, L. B. Harrison.*Treasurer*—George Milne.*Secretary*—William D. Gallagher.*Superintendent*—A. Peabody.**Officers for 1847-48.***President*—James C. Hall.*Vice-Presidents*—N. W. Thomas, Charles Hartshorne, Benjamin Urner, Lewis Whiteman, Joseph Torrence, S. C. Parkhurst.*Treasurer*—George Milne.*Secretary*—Channing Richards.*Superintendent*—A. Peabody.**Officers for 1848-49.***President*—N. W. Thomas.*Vice-Presidents*—Joseph Torrence, Henry Emerson, R. M. W. Taylor, Robert Brown, Charles Hartshorne, D. M. Foster.*Treasurer*—George Milne.*Secretary*—Channing Richards.*Superintendent*—A. Peabody.**Officers for 1849-50.***President*—N. W. Thomas.*Vice-Presidents*—D. M. Foster, Henry Emerson, W. B. Cassilly, Joseph Torrence, S. P. Hall, George Keck.*Treasurer*—George Milne.*Secretary*—Richard Smith.*Superintendent*—Richard Smith.**Officers for 1850-51.***President*—N. W. Thomas.*Vice-Presidents*—Henry Emerson, William Hooper, Briggs Swift, W. B. Cassilly, M. B. Ross, Jos. Torrence.*Treasurer*—George Milne.*Secretary*—Richard Smith.*Superintendent*—Richard Smith.**Officers for 1851-52.***President*—N. W. Thomas.*Vice-Presidents*—Henry Emerson, W. W. Scarborough, John Swasey, George Keck, William Hooper, C. W. West.*Treasurer*—George Milne.*Secretary*—Richard Smith.*Superintendent*—Richard Smith.**Officers for 1852-53.***President*—N. W. Thomas.*Vice-Presidents*—George Keck, R. W. Keys, S. P. Hibberd, Edmund Dexter, C. W. West, Henry Emerson.*Treasurer*—George Milne.*Secretary*—Richard Smith.*Superintendent*—Richard Smith.**Officers for 1853-54.***President*—N. W. Thomas.*Vice-Presidents*—Edmund Dexter, L. B. Harrison, C. W. West, S. Davis, Jr., Robert Andrews, S. P. Hibberd.*Treasurer*—George Milne.*Secretary*—Richard Smith.*Superintendent*—Richard Smith.

Officers for 1854-55.

President—R. M. W. Taylor.
Vice-Presidents—George Shillito, Briggs Swift, R. W. Keys, Charles Davis, Robert Hosea, A. D. E. Tweed.
Treasurer—George Milne.
Secretary—Richard Smith.
Superintendent—William Smith.

Officers for 1855-56.

President—James F. Torrence.
Vice-Presidents—Charles Davis, James McKeehan, John Swasey, Robert Hosea, A. D. E. Tweed, Lowell Fletcher.
Treasurer—Robert Brown.
Secretary—Richard Smith.
Superintendent—William Smith.

Officers for 1856-57.

President—Joseph Torrence.
Vice-Presidents—P. Andrew, J. D. Lehmer, A. D. E. Tweed, S. Davis, Jr., Isaac A. Ogborn, William Glenn.
Treasurer—Robert Brown.
Secretary—Richard Smith.
Superintendent—William Smith.

Officers for 1857-58.

President—Joseph Torrence.
Vice-Presidents—William Glenn, Seth Evans, George F. Davis, P. Andrew, James A. Frazer, Isaac A. Ogborn.
Treasurer—Robert Brown.
Secretary—Richard Smith.
Superintendent—William Smith.

Officers for 1858-59.

President—Joseph Torrence.
Vice-Presidents—George F. Davis, Seth Evans, P. Andrew, Isaac A. Ogborn, W. C. Neff, William Shaffer.
Treasurer—Robert Brown.
Secretary—Richard Smith.
Superintendent—William Smith.

Officers for 1859-60.

President—Joseph Torrence.
Vice-Presidents—John A. Dugan, Benjamin Eggleston, Morris Orum, Isaac A. Ogborn, Thomas H. Foulds, Sam. J. Hale.
Treasurer—Robert Brown.
Secretary—Richard Smith.
Superintendent—William Smith.

Officers for 1860-61.

President—J. W. Sibley.
Vice-Presidents—John Dubois, R. A. Jones, Thos. Ong, Morris Orum, John A. Dugan, Sam. J. Hale.
Treasurer—Robert Brown.
Secretary—John A. Gano.
Superintendent—William Smith.

Officers for 1861-62.

President—Joseph C. Butler.
Vice-Presidents—B. P. Baker, Isaac A. Ogborn, N. Goldsmith, J. D. Minor, Lewis Fagin, S. W. Smith.
Treasurer—George Keck.
Secretary—John A. Gano.
Superintendent—William Smith.

Officers for 1862-63.

President—George F. Davis.
Vice-Presidents—William Henry Davis, N. Goldsmith, Isaac A. Ogborn, A. E. Armstrong, Thomas H. Foulds, James M. Glenn.
Treasurer—George Keck.
Secretary—John A. Gano.
Superintendent—William Smith.

Officers for 1863-64.

President—George F. Davis.
Vice-Presidents—Isaac A. Ogborn, E. P. Coe, N. Goldsmith, Thomas H. Foulds, W. D. Chipman, James M. Glenn.
Treasurer—George Keck.
Secretary—John A. Gano.
Superintendent—William Smith.

Officers for 1864-65.

President—George F. Davis.
Vice-Presidents—Isaac A. Ogborn, S. W. Smith, Thos. H. Foulds, Seth Evans, S. C. Newton, Wm. H. Woods.
Treasurer—George Keck.
Secretary—John A. Gano.
Superintendent—William Smith.

Officers for 1865-66.

President—Theodore Cook.
Vice-Presidents—S. C. Newton, William H. Gilpin, C. Taylor Jones, Andrew Erkenbrecher, Sam. J. Hale, Thomas H. Foulds.
Treasurer—William Shaffer.
Secretary—John A. Gano.
Superintendent—William Smith.

Officers for 1866-67.

President—S. C. Newton.
Vice-Presidents—E. W. Cunningham, M. W. Stone, Oliver Perin, Wm. H. Davis, Wm. H. Gilpin, S. J. Hale.
Treasurer—William Shaffer.
Secretary—John A. Gano.
Superintendent—William Smith.

Officers for 1867-68.

• *President*—John A. Gano.
Vice-Presidents—Oliver Perin, M. W. Stone, John D. Minor, H. Morris Johnston, William Henry Davis, Florence Marmet.
Treasurer—William Shaffer.
Secretary—George McLaughlin.
Superintendent—William Smith.

Officers for 1868-69.

President—John A. Gano.
Vice-Presidents—William Henry Davis, H. Morris Johnston, Florence Marmet, J. H. French, S. F. Covington, Abner L. Frazer.
Treasurer—William Shaffer.
Secretary—George McLaughlin.
Superintendent—William Smith.

Officers for 1869-70.

President—John A. Gano.
Vice-Presidents—S. F. Covington, Abner L. Frazer, W. J. Lippincott, B. W. Wasson, H. Wilson Brown, William Henry Davis.
Treasurer—Jason Evans.
Secretary—J. M. W. Neff.
Superintendent—William Smith.

Officers for 1870-71.

President—Charles W. Rowland.
Vice-Presidents—John Morrison, H. Wilson Brown,
 S. F. Covington, L. T. Barr, B. W. Wasson, John
 S. Sloan.
Treasurer—Jason Evans.
Secretary—D. L. Garrison.
Superintendent—William Smith.

Officers for 1871-72.

President—Charles W. Rowland.
Vice-Presidents—James M. Glenn, John Kyle, John
 Morrison, L. J. Workum, J. R. Reed, Howard Eckert.
Treasurer—William Shaffer.
Secretary—N. S. Jones.
Superintendent—Sidney D. Maxwell.

Officers for 1872-73.

President—S. F. Covington.
Vice-Presidents—M. W. Stone, J. C. Crane, Seth
 Evans, W. D. Chipman, J. M. Wallingford, Samuel
 V. Reid.
Treasurer—William Shaffer.
Secretary—William T. Tibbitts.
Superintendent—Sidney D. Maxwell.

Officers for 1873-74.

President—S. F. Covington.
Vice-Presidents—C. M. Holloway, George F. Ire-
 land, Samuel V. Reid, Alfred C. Thomas, George
 B. Weldier, John H. Porter.
Treasurer—William Shaffer.
Secretary—William T. Tibbitts.
Superintendent—Sidney D. Maxwell.

Officers for 1874-75.

President—C. M. Holloway.
Vice-Presidents—Edmund Dexter, George B. Weld-
 ler, James S. Wise, Alfred C. Thomas, Peter A.
 White, L. C. Weir.
Treasurer—Warren Rawson.
Secretary—Charles B. Murray.
Superintendent—Sidney D. Maxwell.

Officers for 1875-76.

President—C. M. Holloway.
Vice-Presidents—Edmund Dexter, William Harvey,
 Thomas G. Smith, George F. Ireland, Peter A.
 White, Henry J. Page.
Treasurer—Briggs Swift.
Secretary—Brent Arnold.
Superintendent—Sidney D. Maxwell.

Officers for 1876-77.

President—Benjamin Eggleston.
Vice-Presidents—William J. Armel, James Gordon,
 Joseph R. Megrue, John W. Hartwell, Henry J. Page,
 William H. Gilpin.
Treasurer—Briggs Swift.
Secretary—Brent Arnold.
Superintendent—Sidney D. Maxwell.

Officers for 1877-78.

President—John W. Hartwell.
Vice-Presidents—George I. King, Frederick A. Laid-
 ley, Joseph R. Megrue, Thomas Morrison, James D.
 Parker, Lewis L. Sadler.

Officers for 1877-78—Cont'd.

Treasurer—Florence Marmet.
Secretary—Enoch Taylor.
Superintendent—Sidney D. Maxwell.

Officers for 1878-79.

President—William N. Hobart.
Vice-Presidents—Briggs S. Cunningham, James S.
 Wise, William Means, Thomas Morrison, Charles N
 Fox, John W. Christy.
Treasurer—Florence Marmet.
Secretary—John H. Long.
Superintendent—Sidney D. Maxwell.

Officers for 1879-80.

President—H. Wilson Brown.
Vice-Presidents—Briggs S. Cunningham, Herman
 Goepper, William H. Gilpin, Mathew Ryan, Wm.
 A. Procter, William W. Taylor.
Treasurer—James Espy.
Secretary—John H. Long.
Superintendent—Sidney D. Maxwell.

Officers for 1880-81.

President—Henry C. Urner.
Vice-Presidents—John H. Long, Herman Goepper,
 William Harvey, Paul F. Mohr, Samuel McKeehan,
 William W. Taylor.
Treasurer—John Kyle.
Secretary—James H. Foote.
Superintendent—Sidney D. Maxwell.

Officers for 1881-82.

President—Henry C. Urner.
Vice-Presidents—William Harvey, Samuel Mc-
 Keehan, Lewis O. Maddux, Daniel Stone, Thomas
 L. Macdonald, Morgan H. Fagin.
Treasurer—John Kyle.
Secretary—John H. Long.
Superintendent—Sidney D. Maxwell.

Officers for 1882-83.

President—James D. Parker.
Vice-Presidents—W. W. Peabody, Michael Ryan,
 Frank Kinsey, Richard H. Cost, Nicholas Curtis,
 J. N. Woolscroft.
Treasurer—John A. Townley.
Secretary—Charles B. Murray.
Superintendent—Sidney D. Maxwell.

Officers for 1883-84.

President—W. W. Peabody.
First Vice-President—Lewis L. Sadler.
Second Vice-President—Adolph Wood.
Directors—For One Year—Frank Kinsey, Richard H.
 Cost, Chas. Fleischmann, B. Frank Davis, F. X. Reno.
For Two Years—Stephen F. Dana, Sam'l Bailey, Jr.,
 Henry J. Page, William V. Ebersole, Chas. H. Jacob.
Treasurer—John A. Townley.
Secretary—Charles B. Murray.
Superintendent—Sidney D. Maxwell.
Board of Real Estate Managers—W. W. Peabody,
 President; Henry C. Urner (four years), John Car-
 lisle (three years), A. Hicklenlooper (two years),
 Seth C. Foster (one year).

Officers for 1884-85.*President*—W. W. Peabody.*First Vice-President*—Adolph Wood.*Second Vice-President*—Adam Gray.*Directors*—For One Year—Stephen F. Dana, Samuel Bailey, Jr., Henry J. Page, William V. Ebersole, Charles H. Jacob.*For Two Years*—C. C. Waite, Lewis W. Shaffer, Grove J. Penney, Henry DeBus, Henry M. Warren.*Treasurer*—Herman Goepper.*Secretary*—Charles B. Murray.*Superintendent*—Sidney D. Maxwell.*Board of Real Estate Managers*—W. W. Peabody, President; John Kyle (four years), Henry C. Urner (three years), John Carlisle (two years), A. Hickenlooper (one year).**Officers for 1885-86.***President*—Edwin Stevens.*First Vice-President*—Adam Gray.*Second Vice-President*—Levi C. Goodale.*Directors*—For One Year—C. C. Waite, Lewis W. Shaffer, Grove J. Penney, Henry DeBus, Henry M. Warren.*For Two Years*—L. H. Brooks, John A. Kreis, Wm. E. Hutton, Ralph Peters, Sol. P. Kineon.*Treasurer*—Chas. H. Flach.*Secretary*—Charles B. Murray.*Superintendent*—Sidney D. Maxwell.*Board of Real Estate Managers*—Edwin Stevens, President; James M. Glenn (four years), John Kyle (three years), Henry C. Urner (two years), John Carlisle (one year).**Officers for 1886-87.***President*—A. Hickenlooper.*First Vice-President*—Levi C. Goodale.*Second Vice-President*—C. C. Waite.*Directors*—For One Year—L. H. Brooks, John A. Kreis, William E. Hutton, Ralph Peters, Sol. P. Kineon.*For Two Years*—John M. Kirtley, Augustus H. Honshell, William L. Hunt, Frank Evans, Joseph Rawson, Jr.*Treasurer*—Richard Ryan.*Secretary*—Ambrose White.*Superintendent*—Sidney D. Maxwell.*Board of Real Estate Managers*—A. Hickenlooper, President; John Carlisle (four years), James M. Glenn (three years), John Kyle (two years), Henry C. Urner (one year).**Officers for 1887-88.***President*—Levi C. Goodale.*First Vice-President*—C. C. Waite.*Second Vice-President*—Lowe Emerson.*Directors*—For One Year—John M. Kirtley, Augustus H. Honshell, William L. Hunt, Frank Evans, Joseph Rawson, Jr.*For Two Years*—Joseph R. Brown, G. V. Stevenson, Sam. W. Weidler, Paris C. Brown, Charles R. Brent.*Treasurer*—Albert Erkenbrecher.*Secretary*—William E. Hutton.*Superintendent*—Sidney D. Maxwell.*Board of Real Estate Managers*—Levi C. Goodale, President; Henry C. Urner (four years), John Carlisle (three years), James M. Glenn (two years), John Kyle (one year).**Officers for 1888-89.***President*—Thomas Morrison.*First Vice-President*—Lowe Emerson.*Second Vice-President*—Richard Dymond.*Directors*—For One Year—Joseph R. Brown, G. V. Stevenson, Sam. W. Weidler, Paris C. Brown, Charles R. Brent.*For Two Years*—J. Walter Freiberg, A. H. McLeod, William McCallister, John F. Hazen, John N. Wooliscroft.*Treasurer*—William L. Hunt.*Secretary*—Paul M. Millikin.*Superintendent*—Sidney D. Maxwell.*Board of Real Estate Managers*—Thomas Morrison, President; John Kyle (four years), Henry C. Urner (three years), John Carlisle (two years), James M. Glenn (one year).**Officers for 1889-90.***President*—Lee H. Brooks.*First Vice-President*—Richard Dymond.*Second Vice-President*—Joseph R. Brown.*Directors*—For One Year—J. Walter Freiberg, A. H. McLeod, William McCallister, John F. Hazen, John N. Wooliscroft.*For Two Years*—Samuel J. Hale, George F. Munson, William Montgomery, Robert Laidlaw, Edward Senior.*Treasurer*—Gazzam Gano.*Secretary*—H. B. Morehead.*Superintendent*—Sidney D. Maxwell.*Board of Real Estate Managers*—Lee H. Brooks, President; Samuel Bailey, Jr. (four years), C. M. Holloway (three years), Henry C. Urner (two years), John Carlisle (one year).**Officers for 1890-91.***President*—Lowe Emerson.*First Vice-President*—Joseph R. Brown.*Second Vice-President*—Ralph Peters.*Directors*—For One Year—Samuel J. Hale, George F. Munson, William Montgomery, Robert Laidlaw, Edward Senior.*For Two Years*—Frank A. Rothier, Benj. F. Haughton, John M. Kennedy, Harry L. Laws, Dawson Blackmore.*Treasurer*—Samuel W. Ramp.*Secretary*—N. R. Adriance.*Superintendent*—Sidney D. Maxwell.*Board of Real Estate Managers*—Lowe Emerson, President; John Grubb (four years), Samuel Bailey, Jr. (three years), C. M. Holloway (two years), Henry C. Urner (one year).**Officers for 1891-92.***President*—Joseph R. Brown.*First Vice-President*—Ralph Peters.*Second Vice-President*—Michael Ryan.*Directors*—For One Year—Frank A. Rothier, Benj. F. Haughton, John M. Kennedy, Harry L. Laws, Dawson Blackmore.*For Two Years*—Thomas W. Allen, J. Milton Blair, Robert W. Wise, Frank A. Brown, B. W. Wasson.*Treasurer*—George H. Bohrer.*Secretary*—James T. McHugh.*Superintendent*—Charles B. Murray.

* Died March 20, 1889. C. M. Holloway elected to fill vacancy April 23, 1889

Officers for 1892-93.*President*—Brent Arnold.*First Vice-President*—Michael Ryan.*Second Vice-President*—William E. Hutton.*Directors*—*For One Year*—Thomas W. Allen, J. Milton Blair, Robert W. Wise, Frank A. Brown, B. W. Wasson.*For Two Years*—Casper H. Rowe, Albert Lackman, Peter Van Leunen, James B. Wallace, Albert B. Voorhels.*Treasurer*—Clifford B. Wright.*Secretary*—Maurice J. Freiberg.*Superintendent*—Charles B. Murray.**Officers for 1893-94.***President*—Michael Ryan.*First Vice-President*—William E. Hutton.*Second Vice-President*—Maurice J. Freiberg.*Directors*—*For One Year*—Casper H. Rowe, Albert Lackman, Peter Van Leunen, James B. Wallace, Albert B. Voorhels.*For Two Years*—Paris C. Brown, Adam Smyrl, S. W. Bard, W. W. Granger, Jr., Rufus Burckhardt.*Treasurer*—George Guckenberger.*Secretary*—A. H. Pape.*Superintendent*—Charles B. Murray.**Officers for 1894-95.***President*—James M. Glenn.*First Vice-President*—Maurice J. Freiberg.*Second Vice-President*—Wm. McCallister.*Directors*—*For One Year*—Paris C. Brown, Adam Smyrl, S. W. Bard, W. W. Granger, Jr., R. Burckhardt.*For Two Years*—J. Parker Gale, Talton Embry, Nicholas J. Hoban, F. M. Huschart, T. P. Wiggins.*Treasurer*—Albert Lackman.*Secretary*—C. Lee Williams.*Superintendent*—Charles B. Murray.**Officers for 1895-96.***President*—Maurice J. Freiberg.*First Vice-President*—Wm. McCallister.*Second Vice-President*—B. W. Wasson.*Directors*—*For One Year*—J. Parker Gale, Talton Embry, Nicholas J. Hoban, F. M. Huschart, T. P. Wiggins.*For Two Years*—H. Lee Early, Frank W. Foulds, John H. Allen, George F. Dieterle, John S. Shillito.*Treasurer*—Casper H. Rowe.*Secretary*—Fred. Guckenberger.*Superintendent*—Charles B. Murray.**Officers for 1896-97.***President*—J. Milton Blair.*First Vice-President*—B. W. Wasson.*Second Vice-President*—Wm. L. Hunt.*Directors*—*For One Year*—H. Lee Early, Frank W. Foulds, John H. Allen, George F. Dieterle, John S. Shillito.*For Two Years*—Robert H. West, Edwin C. Gibbs, Oscar F. Barrett, Clarence H. Jones, J. W. Dunn.*Treasurer*—P. M. Millikin.*Secretary*—James B. Wallace.*Superintendent*—Charles B. Murray.**Officers for 1897-98.***President*—William McCallister.*First Vice-President*—*Oliver L. Perin.*Second Vice-President*—William B. Melish.*Directors*—*For One Year*—Robert H. West, Edwin C. Gibbs, Oscar F. Barrett, Clarence H. Jones, J. W. Dunn.*For Two Years*—William F. Robertson, Wm. A. Goodman, Jr., H. P. Wiborg, John M. Macdonald, William R. McQuillan.*Treasurer*—Charles A. Hinsch.*Secretary*—Charles L. Garner.*Superintendent*—Charles B. Murray.**Officers for 1898-99.***President*—Robert H. West.*First Vice-President*—†John H. Allen.*Second Vice-President*—James T. McHugh.*Directors*—*For One Year*—William F. Robertson, William A. Goodman, Jr., H. P. Wiborg, John M. Macdonald, William R. McQuillan.*For Two Years*—Charles E. Fish, Jr., M. E. Lynn, Charles E. Knaul, Hugo Gruner, J. F. Ellison.*Treasurer*—L. B. Daniel.*Secretary*—George Metzger.*Superintendent*—Charles B. Murray.

. * Elected November 9, 1897, to fill vacancy. † Elected January 24, 1899, to fill vacancy.

CHARTER.

AN ACT

To Incorporate the Cincinnati Chamber of Commerce and Merchants' Exchange.

SECTION 1. *Be it Enacted by the General Assembly of the State of Ohio, That* Nicholas W. Thomas, Dunning M. Foster, Henry Emerson, William B. Cassilly, Joseph Torrence, S. P. Hall, George Beck, George Milne and Richard Smith, and their associates, be and they are hereby created a body corporate and politic, with perpetual succession, by the name and style of the Cincinnati Chamber of Commerce and Merchants' Exchange; and by that name shall be competent to contract and be contracted with, to sue and be sued, to plead and be impleaded, answer and be answered unto, defend and be defended, in all courts and places, and in all matters whatever, with full powers to acquire, hold, possess, use, occupy, and enjoy, by gift, grant, devise, or otherwise, and the same to sell, convey, and dispose of, all such real estate and other property as may be necessary and convenient for the support and transaction of business of said Chamber of Commerce, or which may be conveyed to the same for the security or in payment of any debts which may become due and owing to said Chamber of Commerce, or in satisfaction of any judgment at law, or any decree of a court of equity in its favor, and may make, have, and use a common seal, and the same break, alter, and renew at pleasure, provided that the property, funds, and revenues of said Chamber of Commerce shall not be used for any other than the purposes of a Chamber of Commerce.

SEC. 2. That the real and personal estate, property, funds, revenues, and other concerns of said Chamber of Commerce, and the administration of its affairs, shall be under the exclusive direction of the active members of said Chamber of Commerce, who shall, on the second Tuesday of September, annually, at such time of the day and at such place in the City of Cincinnati as the officers for the time being shall appoint, which officers shall be members of said Chamber of Commerce, choose a Board of Officers consisting of a President, six Vice-Presidents, Treasurer and Secretary, who shall hold their offices for one year

and until their successors shall be chosen. The members of said Chamber of Commerce shall fill all vacancies in the Board of Officers during the year, and also shall have power to make by-laws and regulations for the government of said Chamber of Commerce, annex reasonable pecuniary fines as a penalty for the breach thereof, and do all such other acts as appertain to the Chamber of Commerce. The Board of Officers shall appoint a Superintendent and such other agents as they shall deem fit and expedient, provided no by-laws, rules, or regulations shall in any wise be contrary to the Constitution and laws of the State or of the United States.

SEC. 3. This act shall be taken and received in all courts, and by all judges, magistrates, and other public officers, as a public act, and all printed copies of the same, which shall be printed by or under the authority of the General Assembly, shall be admitted as good evidence thereof, without any other proof whatever.

BENJAMIN F. LEITER,
Speaker of the House of Representatives.

CHARLES C. CONVERSE,
Speaker of the Senate.

MARCH 23, 1850.

SECRETARY OF STATE'S OFFICE,
COLUMBUS, O., October 11, 1853.

I, William Trevitt, Secretary of State of the State of Ohio, do hereby certify that the foregoing and annexed act is correctly copied from the original rolls remaining on file in this office.

In testimony whereof, I have hereunto subscribed my name and affixed the great seal of the State of Ohio, at Columbus, this eleventh day of October, A. D. 1853.

WILLIAM TREVITT,
Secretary of State.

ADDITIONAL CHARTER PRIVILEGES.

On the third day of April, 1866, the Legislature of the State of Ohio enacted a law, entitled "An Act to Authorize the Incorporation of Boards of Trade and Chambers of Commerce," the eleventh section of which reads as follows:

"Any board of trade or chamber of commerce, heretofore organized in this State, may avail itself of the privileges and powers, in whole or in part, conferred by this act, by making a certificate of its adoption thereof, under its seal, and attested by the signature of the president and secretary; which said certificate shall be filed in the office of the Secretary of State, and recorded in the county where such board or chamber may exist, and, when so recorded, shall confer all the privileges and powers so defined."

In accordance with the foregoing section, the Cincinnati Chamber of Commerce and Merchants' Exchange, on the 21st day of May, 1866, adopted the sixth (6), seventh (7), eighth (8) and ninth (9) sections of the said act, which thus became a part of the corporate powers of the Association. These sections of the law were as follows:

SECTION 6. It shall be lawful for such corporation, when they shall think proper, to receive and require of and from their officers, whether elected or appointed, good and sufficient bonds for the faithful discharge of their duties and trusts; and the president, vice-president, or secretary, are hereby authorized to administer such oaths of office as may be prescribed in the by-laws of such corporation; such bond or bonds shall be made payable and conditioned as prescribed by the by-laws of such corporation; and may be sued, and the moneys collected and held for the use of the party injured, or such other use as may be determined upon by said corporation.

SEC. 7. The annual meeting of such boards of trade or chambers of commerce for the election of officers and other purposes, shall be held at such time in each year as the association shall by their by-laws prescribe. But if, for any cause, a failure to hold such annual meeting shall occur, then the annual meeting and election of officers may be held at such time and place as may be appointed by the majority of the board of directors, upon thirty days' notice by the president or secretary being published in any newspaper of general circulation in the town or city in which such corporation may be located. Meetings of the directors and business meetings of such association shall be held in accordance with the by-laws of such association.

SEC. 8. The board of directors shall control, manage and conduct the financial and business concerns of the association. They shall annually, one month after their election, or at any other meeting of their body thereafter, appoint such inspectors, gaugers, weighers, measurers, and other officers and employes as the by-laws may require, or as they may deem expedient and necessary, for the term of one year, subject to removal at the discretion of the board.

SEC. 9. Every inspector, gauger, weigher or measurer appointed by any association organized under this act, shall be recognized as a legally appointed officer, for the duties pertaining to his position, in the city and county wherein such association may be located, and shall be subject to all the provisions and penalties of the laws of this State. The certificate of such appointees, as to his official acts, shall be evidence and binding upon the persons interested.

ACCEPTANCE OF THE PROVISIONS OF THE REVISED STATUTES.

On the twelfth day of March, 1883, the Association accepted any and all the provisions of the Revised Statutes of the State of Ohio, so far as the same relate to boards of trade and chambers of commerce, by which it practically abandoned its old Charter and became a corporation under the present Constitution of the State of Ohio, and the laws made in pursuance thereof, and on the thirteenth day of March, 1883, adopted the By-laws which appear in this volume, and which thereby became a substitute for the Constitution that had been in force from 1873.

SECTION OF THE REVISED STATUTES, AUTHORIZING THE ACCEPTANCE OF THE PROVISIONS OF THE SAME BY CORPORATIONS EXISTING PRIOR TO THE PRESENT CONSTITUTION OF OHIO.

SEC. 3233. A corporation created before the adoption of the present constitution, and now actually doing business, may accept any of the provisions of this title, and when a certified copy of such acceptance is filed with the Secretary of State, so much of its charter as is inconsistent with the provisions of this title is hereby repealed.

CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE,
CINCINNATI, March 12, 1883.

At a regular session of the Cincinnati Chamber of Commerce and Merchants' Exchange, held this day, the following resolution was offered, and on motion unanimously adopted :

Resolved, By the Cincinnati Chamber of Commerce and Merchants' Exchange, that it does hereby accept any and all provisions relating to corporations, of the Revised Statutes of Ohio, so far as the same relate to boards of trade or chambers of commerce, and that a certified copy of this acceptance be filed with the Secretary of State of the State of Ohio, duly certified by the officers of this Chamber.

[SEAL.]

J. D. PARKER, *President*.

CHARLES B. MURRAY, *Secretary*.

UNITED STATES OF AMERICA, OHIO,
OFFICE OF THE SECRETARY OF STATE.

I, James W. Newman, Secretary of State of the State of Ohio, do hereby certify that the foregoing is a true copy of the Articles of Acceptance of the provisions of the Revised Statutes of Ohio, relating to corporations, so far as the same relate to boards of trade or chambers of commerce, by "The Cincinnati Chamber of Commerce and Merchants' Exchange," filed in this office, on the 19th day of March, 1883, and recorded in volume —, pages —, of the Records of Incorporation.

In testimony whereof, I have hereunto subscribed my name and affixed my seal of office, at Columbus, the 10th day of April, A. D. 1883.

[SEAL.]

JAMES W. NEWMAN,
Secretary of State.

COPY OF SECTIONS OF THE REVISED STATUTES PERTAINING TO BOARDS OF
TRADE, CHAMBERS OF COMMERCE, ETC.

SEC. 3827. The officers of an incorporated board of trade, chamber of commerce or merchants' exchange, shall consist of a president, two vice-presidents, treasurer, secretary, and not less than ten directors, all of whom shall be members of the association, and be engaged in business at, or residents of, the city or town where it is established; they shall be elected by ballot at the annual meeting of the association, and shall hold their offices for one year, unless said association shall by its by-laws provide a longer term for all or any of said officers, and until their successors are elected and qualified; the officers thus selected, together with said directors, shall constitute the board of directors of such association; and all other officers, agents or committees deemed necessary for the interests of the association, shall be elected or appointed in such manner and with such powers as may be provided by the by-laws of the association. And in like manner said association may have the power to provide for the trial, suspension, fine or expulsion of any of its members by the board of directors constituted as hereinbefore provided. And said association may make provision for the relief and support of the families and dependents of deceased members.

SEC. 3828. Such corporations may constitute and appoint committees of reference and arbitration, and committees of appeals, who shall be governed by such rules and regulations as may be prescribed in rules or by-laws for the settlement of such matters of reference as may be voluntarily submitted for arbitration by members of the association, or by other persons not members thereof.

SEC. 3829. Such corporations may receive and require of and from their officers, whether elected or appointed, good and sufficient bonds for the faithful discharge of their duties and trusts, which bonds shall be conditioned and made payable as prescribed by the by-laws of the corporations, and may be sued (on), and the money collected and held for the use of the party injured, or such other use as may be determined upon by the corporation; and the president, a vice-president, or the secretary of any such corporation, may administer such oaths of office as may be prescribed in its by-laws.

SEC. 3830. Every inspector, gauger, weigher or measurer appointed by any such association shall be recognized as a legally appointed officer, for the duties pertaining to his position, in the city and county wherein the association is located, and shall be subject to all the provisions and penalties of the laws relating to such officers; and the certificate of such appointee, as to his official acts, shall be evidence and binding upon the persons interested.

*SEC. 3830a. Every inspector, gauger, weigher or measurer appointed by any board of trade or chamber of commerce heretofore or hereafter organized in this State, may appoint one or more deputies, to be approved by the board of directors or board of officers of such board of trade or chamber of commerce, and the said inspector, gauger, weigher or measurer may take from his deputy a bond, with sureties, conditioned for the faithful performance of the duties of the appointment, but in all cases said inspector, gauger, weigher, or measurer shall be responsible for his deputy's neglect of duty or misconduct in office.

SEC. 3831. Any board of trade or chamber of commerce heretofore organized in this State may avail itself of the privileges and powers, in whole or in part, conferred by the three preceding sections, by making a certificate of its adoption thereof, under its seal, and attested by the signatures of its president and secretary, which shall be filed in the office of the Secretary of State, and, when so filed, shall confer all the privileges and powers so defined.

SEC. 3832. Any such incorporated association may purchase or lease suitable grounds, and erect thereon such buildings as the board of directors deem proper for the interest of the association; and such association may lease any portion of such building that is not occupied by or needed for its immediate use.

* Supplemental section, passed April 6, 1883.

BY-LAWS.

ADOPTED MARCH 18, 1888.

AMENDED MAY 20, 1891.

P R E A M B L E.

The members of the Cincinnati Chamber of Commerce and Merchants' Exchange, an Association organized and incorporated to collect information in relation to commercial, financial, and industrial affairs, that may be of general interest and value; to secure uniformity in commercial laws and customs; to facilitate business intercourse; to promote equitable principles, as well as the adjustment of differences and disputes, in trade, adopt the following By-laws:

A R T I C L E I.

M E M B E R S H I P.

SECTION 1. This Association shall comprise active and honorary members.

SEC. 2. Any person of good character, and of lawful age, on the proposal of one member, seconded by another, and on presentation of a written application stating the nature of his business, and such other information as the Board of Directors may require, after ten days' notice of such application has been conspicuously posted upon the bulletin board of the Exchange, may be admitted to active membership, if elected by the Board of Directors, on presentation of a certificate of unimpaired or unforfeited membership duly transferred to him, and on signing an agreement to abide by the By-laws, Rules and Regulations of the Association, and all amendments that may be made thereto. In the event of an application for membership being rejected by the Board of Directors, a subsequent application for the same party shall not be entertained during a period of six months from the date of the first application of the said party.*

SEC. 3. The Board of Directors may, by unanimous vote, admit to honorary membership any person who, from eminence, shall seem entitled to such consideration; and such honorary membership shall confer all the rights and privileges of active members during life, unless withdrawn for cause. But not more than one person shall be so admitted in any one year.

Honorary members.

* As amended August 19, 1896, by the addition of the last sentence in this section.

ARTICLE II.

GOVERNMENT.

Government of
the Association;
how vested.

Board of Directors;
terms of office.

Exception for
Board of Directors
elected in 1883.

Beginning of official
terms.

Members eligible
to hold office,
etc.

SECTION 1. The government of the Cincinnati Chamber of Commerce and Merchants' Exchange is hereby vested in a Board of Directors, consisting of the President, two Vice-Presidents, the Treasurer, the Secretary and ten Directors, who shall be elected by ballot as hereinafter provided. The term of office of the President, Treasurer, and Secretary shall be for one year, or until their successors are elected and qualified. The term of office of the Vice-Presidents and the Directors shall be for two years, or until their successors are elected and qualified. *Provided*, that at the annual election in the year 1883, there shall be elected the President, one Vice-President, the Treasurer, the Secretary, and five Directors to serve for one year, and one Vice-President and five Directors to serve for two years; and that thereafter there shall be annually elected such officers as may be necessary to fill the vacancies caused by the expiration of the respective official terms.

SEC. 2. The official terms of all members of the Board of Directors shall begin on the Monday succeeding their election.

SEC. 3. No member shall be eligible to election as a member of the Board of Directors who has not been a member of the Association for at least one year preceding his election. Nor shall any person be eligible to election to any office, or to appointment upon any committee, who is not directly and actively engaged in mercantile, manufacturing, transportation, banking, insurance or kindred pursuits.

ARTICLE III.

ELECTIONS.

Annual election.

Polls, when open.

Voting: who can
vote, and how.

Tellers.

SECTION 1. The annual election to supply the places of the officers and Directors whose terms of office are about to expire, shall be held at the annual meeting. The polls shall be opened at 12 o'clock M., and closed at 3 o'clock P. M. All members in good and regular standing shall be entitled to vote. All voting shall be by ballot, and proxies shall not be allowed. A plurality of votes cast shall constitute a choice.

SEC. 2. The President shall, prior to any election of the Association, appoint from the members five tellers, who shall have charge of the ballot-boxes and poll lists. It shall be the duty of the tellers to receive the ballots of all members entitled to vote, to make a list

of all members voting, to canvass the votes immediately after each election, and to make a return of the result thereof to the President or Secretary. Three of the tellers shall constitute a quorum for receiving and recording the votes. The Secretary shall preserve all ballots for at least two months after an election, for further examination, if the same shall be ordered by the Board of Directors, to verify the returns made by the tellers.

Ballots, preserved for two months.

*SEC. 3. Upon the second Tuesday in August in every year, the Association shall elect, by ballot, a nominating committee of fifteen members, who shall nominate candidates for all of the offices to be filled at the annual election on the second Tuesday in September following. The nominations so made shall be publicly announced on 'Change, and posted on the bulletin board, at least twelve days before the day of election. No person shall be eligible for any of the offices to be filled whose name shall not have been publicly announced on 'Change, and posted on the bulletin board, at least two days before the day of election.

Nominating committee.

Nominations to be announced and posted.

ARTICLE IV.

DUTIES OF OFFICERS.

SECTION 1. The PRESIDENT shall preside at all meetings of the Association and the Board of Directors, and shall act as the executive officer of the Association. He shall at the annual meetings of the Association, and at such other times as he may deem proper, communicate to the Association such matters as may, in his opinion, tend to promote the prosperity and welfare, and increase the usefulness, of the Association, and shall perform such other duties as are prescribed by these By-laws, or are necessarily incident to his office.

President.

SEC. 2. The VICE-PRESIDENT serving upon the last year of his official term shall be the First Vice-President, and the Vice-President serving upon the first year of his official term shall be the Second Vice-President. In case of the absence or disability of the President, the Vice-Presidents, in the above order, shall perform the duties of the President; and in case of the absence or disability of the President and both Vice-Presidents, the Board of Directors shall appoint one of their number to temporarily perform the duties of the President.

Vice-Presidents.

SEC. 3. The TREASURER shall receive all moneys due to the Association, and, under the direction of the Board of Directors, shall deposit, invest, and disburse the same. He shall not pay out any of

Treasurer.

* As amended August 10, 1894.

the funds of the Association, except upon an order signed by the Secretary and countersigned by the President. He shall keep regular accounts of the financial concerns of the Association, and render a statement thereof at each regular meeting of the Board of Directors. He shall also exhibit an abstract of the same at each quarterly meeting of the Association, and make a detailed report thereof at each annual meeting.

The Treasurer shall give a bond, with two sufficient sureties, approved by the Board of Directors, in the penal sum of \$50,000, for the faithful performance of the duties imposed on him by virtue of his office.

Secretary.

SEC. 4. The SECRETARY shall conduct the official correspondence of the Association, preserve official communications, keep an accurate record of the transactions of the Association and of the Board of Directors, and perform such other duties as are incident to his office.

ARTICLE V.

DUTIES AND POWERS OF THE BOARD OF DIRECTORS.

Business and financial concerns: how managed.

SECTION 1. The business and financial concerns of the Association shall be managed and conducted by, or under the direction of, the Board of Directors.

Board to enact rules.

SEC. 2. The Board of Directors, in addition to the duties specifically enjoined by these By-laws, shall enact such rules as may be deemed expedient for the government of the Exchange, for the regulation of the various departments of trade, and for the guidance and control of the committees herein provided for; it shall provide suitable Exchange rooms, and other necessary rooms and offices for the use of the Association; shall judge of the qualifications of persons applying for membership; and shall generally do such other proper and needful things as in its judgment will tend to promote the usefulness of the Association, and carry out the purposes of its organization.

Provide Exchange rooms,

And judge of the qualifications of persons applying for membership.

Meetings of Directors.

SEC. 3. The Board of Directors shall hold its regular meetings on the first Tuesday of each month. The President may, and, upon the written request of five members of the Board, shall, call special meetings of the Board. At all meetings of the Board of Directors, eight members present shall constitute a quorum.

Quorum.

When absence from meetings creates vacancy.

SEC. 4. If any member of the Board of Directors shall be absent from more than two consecutive regular meetings of the Board, without having been previously excused, or without sending a communication to the President, giving sufficient reasons for his absence,

his seat in the Board may, by vote of the Board, be declared vacant.

SEC. 5. In case of any vacancy from death, resignation, or other cause, in the Board of Directors, the Board of Directors shall communicate the same to the Association, and fix a day for an election by the Association to fill such vacancy for the remainder of the official term.

Vacancies: how filled.

SEC. 6. The Board of Directors shall report at each quarterly meeting of the Association whatever may be deemed of general interest in its proceedings during the preceding quarter, and at the annual meeting shall report full details of the condition and finances of the Association.

Reports of Board of Directors.

SEC. 7. The Board of Directors may require of all appointees a good and sufficient bond to secure the faithful and honest performance of the duties assigned to such appointees.

Bonds of appointees.

SEC. 8. The Board of Directors shall have power to examine and try charges of misconduct in business matters, preferred against a member of the Association, when made to the President in writing by a member of the Association; and if the person against whom such charges are made shall be found guilty of a violation of these By-laws or the rules for the regulation of the Exchange, of a breach of contract, of false or fictitious reports of sales or purchases, of willfully interfering with the collection of the reports of the movement of commodities, of a failure to comply with any award of the Committees of Arbitration or Appeals, or of any act contrary to the spirit that should govern all commercial transactions, the Board, by a majority vote of the whole Board, may cause him to be publicly reprimanded on 'Change, may suspend him from membership indefinitely or for a definite time (said time not to be less than six months), or may expel him from membership in the Association.

Charges of misconduct.

Penalties.

SEC. 9. It shall be the duty of the Board of Directors, in case any grave offense committed by any member against the good name or dignity of the Association shall come to its knowledge, either by public rumor, report or otherwise, to cause a preliminary or informal investigation to be made by a committee of its number, into the truth or falsity of such rumor or report; and if the said committee, after investigation, shall deem any member guilty of such offense as rumored or reported, they shall so report to the Board of Directors, with charges; whereupon the member thus implicated shall be notified to appear before the Board of Directors in manner as provided by Section 3, Article XII, and, if found guilty, the said member shall be reprimanded, suspended or expelled, as hereinbefore provided.

Public rumors or reports of grave offenses by members.

Investigation by committee.

Punishment, if sustained.

Refusal to appear
as a witness.

Or to answer
questions.

Punishment for
such contempt.

Announcement
and notification
of suspension
and expulsions.

Suspended or ex-
pelled mem-
bers: how re-
admitted.

SEC. 10. In any investigation or trial before the Board of Directors, or before any other duly constituted committee or other tribunal of the Association, if any member, who shall have had notice from the Secretary or Superintendent, in writing, to appear and testify in the case, or if any member who shall have been cited by the chairman of any duly constituted committee or other tribunal of the Association to appear and testify, shall neglect or refuse to so appear and testify, or, if testifying, shall refuse to answer any question which may, by a majority vote of the said Board of Directors, committee or other tribunal, be declared proper and pertinent to the case in hearing, he shall be subject to suspension by the said Board, from all privileges of the Association, for such period as said Board may determine; which may be done by said Board in case of contempt of a witness before said Board of Directors, or on the report in writing of any such committee or other tribunal, in case the contempt shall occur before such committee or other tribunal of the Association.

SEC. 11. Upon the suspension or expulsion of a member, notice thereof shall be conveyed to him by the Secretary, and the Superintendent shall announce the same on 'Change.

SEC. 12. A suspended member may be reinstated by a majority vote of the whole Board of Directors. An expelled member shall be ineligible to re-election, unless by vote of the Association his disability shall have been removed.

ARTICLE VI.

COMMITTEES OF ARBITRATION AND APPEALS.

Committee of Ar-
bitration: how
appointed.

SEC. 1. The Board of Directors shall annually, at its regular meeting in the month of October, appoint a Committee of Arbitration, to consist of fifteen members, who shall not be members of the Board of Directors, to hear and decide such mercantile disputes as may be submitted to it, any five of whom shall form a quorum to hear and determine cases submitted to the committee.

Committee of
Appeals: how
appointed.

SEC. 2. The Board of Directors shall annually, at its regular meeting in the month of October, appoint a Committee of Appeals, to consist of fifteen members, who shall not be members of the Board of Directors, any five of whom shall form a quorum, to hear and determine appeals that may be made from the awards and findings of the Committee of Arbitration.

Oath of members
of committees.

SEC. 3. Before entering upon the trial of any case, the members of the Committees of Arbitration and Appeals, taking part therein, shall be required to take, or subscribe to, the following oath or affirm-

ation (the oath or affirmation to be administered by a Judge or Justice of the Peace of the County of Hamilton, State of Ohio), or other officer authorized, or to be authorized, to administer oaths in such cases: "I do solemnly swear (or affirm), that I will hear and examine all matters of controversy between (naming the parties to the controversy) in the case now submitted for trial; and that I will make a just and equitable award or finding upon the same, according to the evidence, to the best of my understanding. So help me God."

SEC. 4. The Superintendent, either in person or by deputy, shall act as clerk of the Committees of Arbitration and Appeals.

SEC. 5. All oral evidence in all cases submitted to the Committee of Arbitration shall be taken and recorded by a competent phonographer, who shall be sworn to faithfully record the same.

SEC. 6. The award or finding of a majority of either of the committees present, and trying the case, shall be valid and binding.

SEC. 7. Any award or finding of the Committee of Arbitration may be appealed from, and the case carried to the Committee of Appeals for revision; *Provided*, that notice of such appeal shall be given to the Superintendent in writing within three business days after such award or finding shall have been delivered to the parties in controversy.

SEC. 8. The Committees of Arbitration and Appeals shall each render their awards or findings in writing, which shall be signed by the members of the committee determining the same, and certified copies thereof shall be furnished by the Superintendent, or his deputy, to the parties in controversy in each case. The official records and decisions of the committees may be inspected by any member of the Association upon application to the Superintendent.

SEC. 9. Members desiring the services of either of the committees, shall notify the Superintendent to that effect in writing, and before submitting the case, the parties to such submission shall enter into, and exchange, arbitration bonds,* which shall be conditioned for the faithful performance of the award, and set forth the names of the arbitrators, and the matters submitted to their determination; and that the submission shall be made a rule of any court of record within the State of Ohio, or a rule of any particular court of record named in the submission. The arbitration bonds shall specify a time and place for the hearing, allowing the arbitrators the right to adjourn from time to time, until a conclusion is reached; and a time shall be named in the bonds, within which the award shall be made. But neither of the parties shall cause to be entered such submission

Superintendent to act as clerk.

Phonographic reports to be made.

Awards binding.

Appeal to Committee of Appeals: how made.

Awards to be in writing.

Records and decisions open to inspection by members.

How to obtain the services of the committees.

Arbitration bonds: how conditioned, and how drawn.

Submission made a rule of court.

In cases appealed, award not to be entered as a rule of court until after final finding.

* NOTE.—In order to comply with the statute, the arbitration bonds must contain the names of all the members of the committee before which the case is to be tried, with the agreement that the case may be tried by the whole committee, or any number (not less than five) of its members.

and award as a rule of a court in any case that may be appealed to the Committee of Appeals, until after the award or finding of said Committee of Appeals is made.

New testimony not allowed in trials before Committee of Appeals.

SEC. 10. When any award or finding of the Committee of Arbitration shall be appealed from, the official record of the trial, including all the oral and documentary evidence, with the decision of the Committee of Arbitration, and the dissenting opinion (if any) of the minority of the Committee, shall be handed to the Committee of Appeals, and argument heard thereon by the said Committee, but no new witnesses shall be examined, nor any new testimony of any kind be introduced before the Committee of Appeals.

Powers of Committee of Appeals.

SEC. 11. The Committee of Appeals may confirm, modify, or reverse, the awards or findings of the Committee of Arbitration, and its awards or findings shall be final and binding, and shall not be set aside or revised by any other tribunal of the Association.

Fees.

SEC. 12. The fees of each committee in any case, including photographic and other costs, shall not be less than ten dollars, nor more than one hundred dollars, to be paid as directed by the committee to the Treasurer, for the use of the Association.

Submission of cases by persons not members.

SEC. 13. Persons not members of the Association, who may have controversies with members, may avail themselves of the services of the Committees of Arbitration and Appeals, on the same terms, conditions and regulations that apply to members; *Provided*, that they furnish a member of the Association as surety on their bond.

Special Arbitration Committees: how appointed.

SEC. 14. The President shall have power to appoint special arbitration committees, to arbitrate cases of controversy between members, when requested so to do; or, with his approval, the parties to any controversy may agree upon such a committee. From the award or finding of a special arbitration committee there shall be no appeal. The members of a special arbitration committee shall take the same oath or affirmation prescribed for members of the Standing Committee of Arbitration; and the parties to any controversy, submitted to a special arbitration committee, shall enter into and exchange arbitration bonds in the manner and form prescribed in Section 9, of this article.

No appeal from award of a Special Committee

Members must be sworn.

Arbitration bonds.

ARTICLE VII.

*INSPECTION, ETC.

Appointment of Inspectors, Gaugers, Weighers and other officers.

SECTION 1. The Board of Directors shall, annually, at its regular meeting in the month of October, or thereafter, as occasion may arise, appoint such Inspectors, Gaugers, Weighers, Measurers, and other officers, as it may consider necessary for the purposes of the

Association. The term of office of such appointees shall begin on the first of the month next succeeding their appointment, and shall continue until the end of the following October, or until their successors are appointed and assume their duties; but all such appointments shall be revocable at the will of the Board.

Term of appointed officers

SEC. 2. Each of said Inspectors, Gaugers, Weighers and Measurers shall give bond to the satisfaction of the Board for the faithful performance of his duty; shall charge and receive from parties requiring his services, such fees as may, from time to time, be, by the Board, adjudged reasonable and proper; and may, with the approval of the Board, appoint such duties as he may deem necessary. The official certificate of such Inspectors, Gaugers, Weighers and Measurers shall be conclusive between parties interested, except in cases provided for in Section 4 and Section 5 of this article.

Inspector to give bond.

Fees.

Official certificates.

SEC. 3. The Board of Directors shall, annually, in the month of October, appoint Standing Committees on Inspection, for each interest subject to inspection, which committees shall consist of five members for each, and shall be appointed to serve for the year, beginning on the first day of November following their appointment, and shall also appoint Committees on Quotations in the leading departments of trade, for the daily official record of prices current; *Provided*, that the Board shall have power to remove at pleasure any member of said committees, and to make new appointments thereto, to supply vacancies caused by removal, resignation or death.

Standing Committees on Inspection, etc.

SEC. 4. The Standing Committees on Inspection shall have general supervision of the transactions of the Inspectors, Gaugers, Weighers and Measurers, each committee in its proper sphere; they shall act as referees in cases of dispute as to inspection, gauging, weighing and measuring, and shall, as occasion may arise, recommend to the Board such rules and regulations as may seem to them to be required in their several departments, and the Standing Committees on Grain Inspection and Public Weighing shall have the further power to hear and determine all controversies arising between members in grain trade and weighing matters that may be voluntarily submitted to them. *Provided*, however, that either party to the controversy may appeal from the decision of the said committees to the Committee of Arbitration within three days after the decision has been made known to the said parties.

Duties of Standing Committees.

SEC. 5. The appropriate Standing Committee shall have cognizance of charges against any Inspector, Gauger, Weigher or Measurer, or other officer appointed by the Board; and when such charges are formally presented in writing, shall carefully examine into the same, and in its discretion may reprimand the delinquent

Charges against Inspectors and other officers.

or assess damages against him for the benefit of the Association, or recommend his removal from office to the Board of Directors; but in all cases the Inspector, Gauger, Weigher or Measurer, or other officer may appeal to the Board, within three days after the decision of the Standing Committee has been communicated to him, and the Board shall examine into the case, and confirm, modify, or amend the award of the committee, as may seem to be just and requisite.

Standards of inspection.

SEC. 6. The Board of Directors shall, from time to time, with the advice and consent of the respective Standing Committees, prepare and establish standards for the classification of the various articles subject to inspection, and make such rules and regulations for the guidance of their Inspectors, Gaugers, Weighers and Measurers, and other officers as may be required; and the said standards, rules and regulations shall be binding upon all parties concerned.

ARTICLE VIII.

SUPERINTENDENT.

Elected annually

The Superintendent shall be elected annually by the Board of Directors, and shall hold his office at the pleasure of the Board.

To have charge of rooms.

He shall have charge of the Exchange and other rooms occupied by the Association, provide them with stationery and other necessary supplies, cause them to be properly heated, lighted, ventilated, cleaned, and kept in good condition, and see that order is preserved therein. He shall have charge of all statistical work of the Association, and shall cause to be collected the statistics of the daily movement of the commodities of trade in Cincinnati, and have the same placed in an intelligible and orderly form on the books of the Association. He shall, at the conclusion of each fiscal year prepare a detailed report of the trade and commerce of the city, in its various leading departments, and shall have charge of, and attend to the publication of the same. He shall, either in person or by deputy, attend the meetings of the Committees of Arbitration and Appeals, and Special Committees of Arbitration, and keep a record of the awards made thereby; he shall see that phonographic reports of the testimony in cases before the Committees of Arbitration are made, and, when requested, shall cite persons to appear to give testimony in such cases. He shall have charge of such property of the Association as may be committed to his care; and shall, with the advice and consent of the Board of Directors, appoint such assistants as may be necessary to aid him in the performance of his duties; and he shall perform such other duties pertaining to his office, as may be prescribed by the Board of Directors.

To collect statistics, and prepare and publish annual report.

Attend meetings of Committees of Arbitration and Appeals. See that phonographic reports of testimony are made

Shall appoint assistants.

ARTICLE IX.

CERTIFICATES OF MEMBERSHIP.

SECTION 1. Each active member shall be entitled to receive a certificate of membership, bearing the corporate seal of the Association, and the signatures of the President and Secretary; which certificate, if the membership it represents is not in any way impaired or forfeited, shall be transferable upon the books of the Association to any person eligible to membership who may be elected by the Board of Directors, upon payment of a transfer fee of five dollars, and any unpaid assessments due thereon. The certificate of a deceased member may be transferred in like manner by his legal representatives. *Provided*, that any member who, at the time of the adoption of this Article, is not possessed of a certificate of membership, shall only be entitled to receive one through the transfer of the certificate of a retiring member.

Transfer fee.

SEC. 2. Upon the transfer of his certificate upon the books of the Association, the membership of the person so transferring his certificate shall cease.

SEC. 3. In case of the loss of any certificate, and of a claim that a new certificate be issued in place thereof, the owner shall make an affidavit stating the fact of such loss; he shall cause an advertisement to be published daily, for ten days, in one of the daily newspapers of Cincinnati, describing the lost certificate, and notifying all persons in interest to show cause why a new certificate should not be issued in place of the lost one; and he shall give such bond as the Board of Directors may require, for the purpose of indemnifying the Association from all damage that it may sustain in consequence of the issuing of a new certificate. Upon compliance with these conditions, the Board of Directors shall cause a certificate to be issued to such claimant, if he shall appear to be entitled to the same, in place of the lost certificate.

Loss of certificate

ARTICLE X.

ANNUAL ASSESSMENTS.

The annual assessment upon each active membership, for the purpose of defraying the expenses of the Association, shall be twenty-five dollars, and shall be payable, in advance, on the first day of September in every year. Any member who neglects or refuses to pay the same within thirty days after the same is payable, shall be excluded from the rooms of the Association, until payment is made;

Payable September 1st.

Penalty for neglect of payment

and any member who fails to pay the assessment within one year from the time when the same is payable, shall be deemed to have relinquished his membership, and the certificate representing such membership shall be forfeited and void, and such person can thereafter be re-admitted only as a new applicant.

ARTICLE XI.

MEETINGS.

Annual and quarterly meetings.

SECTION 1. The annual meetings of the Association shall be held on the second Tuesday of September in each year. Quarterly meetings shall be held on the second Tuesdays of December, March, and June, in each year.

Special meetings how called.

SEC. 2. The President may, and upon the written request of a majority of the Board of Directors, or of twenty-five members of the Association, shall, call special meetings of the Association; of which, except for action on the death of a member, at least twenty-four hours' notice shall be given by the President. Such notice shall state explicitly the object for which the meeting is called, and the transactions at said meeting shall be limited to the business stated in the call. *Provided*, that upon the announcement by the President of a call for a meeting under the foregoing provisions, the business stated in the call may be at once considered and acted upon by the members present, if a motion to that effect be actually put and unanimously carried.

Twenty-four hours' notice to be given.

Business may be at once considered, by unanimous vote.

Quorum.

SEC. 3. At all meetings of the Association fifty active members shall constitute a quorum for the transaction of business.

No debate or action to be had during session of Exchange, except at annual meeting.

SEC. 4. No debate or action shall be had on any subject during the hours of the Exchange daily session, except on the day of the annual meeting.

Division can only be had upon demand of ten members.

SEC. 5. At any meeting of the Association the vote on any motion or resolution may be decided by the presiding officer by a *viva voce* vote; but on the demand of any ten members a division requiring a count by the Secretary or tellers can be had, but the yeas and nays can not be ordered.

Daily session of Exchange.

SEC. 6. There shall be a daily session of the Exchange, during such hours as the Board of Directors may provide (Sundays and legal holidays excepted), but this section shall not prevent adjournment at any time the Chamber may so order.

ARTICLE XII.

CONCERNING TRIALS AND CHARGES OF MISCONDUCT.

SECTION 1. All charges made against any member of the Association for any default, misconduct, or offense, shall be addressed to the President in writing, and shall state, in ordinary language, the default, misconduct or offense charged; and the same must be signed by one or more members of the Association, or by a business firm, at least one of whose members shall be a member of the Association.

Charges: how made.

SEC. 2. Upon the receipt of any such charges the President shall appoint a committee of three members of the Board of Directors, whose duty it shall be to examine into the gravamen of the charge, and if thought proper so to do, to endeavor to reconcile the matter in dispute, or to induce the parties interested to submit the same to arbitration. Should the committee fail to effect such reconciliation, or such agreement to arbitrate, and should it find that the charge is one proper to be brought to trial, it shall report the same, in writing, to the Board of Directors, whereupon the Board, if it shall so determine by vote, shall, at such time as it may designate, proceed to a trial of the accused upon the matters charged.

Committee to be appointed for preliminary investigation.

SEC. 3. No member shall be reprimanded, suspended or expelled without a trial by the Board of Directors of the charges made against him, nor without an opportunity to be heard in his own defense. No trial shall take place until after notice shall have been served upon the accused member, accompanied by a copy of the charges against him. Such notice may be served upon the accused personally by the Secretary, or by an employe of the Association, or it may be left at his residence or place of business, or it may be sent by mail to the last known residence of the accused, should he have no residence or place of business in Cincinnati. Such service of notice shall be considered sufficient, and after same the trial may proceed whether the accused is present or not.

Board shall try persons charged.

Accused entitled to trial before sentence.

How notice shall be served upon accused.

ARTICLE XIII.

RULES FOR THE MANAGEMENT OF TRIALS AND CASES BEFORE THE BOARD OF DIRECTORS, AND COMMITTEES OF ARBITRATION AND APPEALS.

RULE 1. No trial before the Board or Committees shall be proceeded with in the absence of either party, until after proof of service of notice, by the Secretary or an employe of the Association,

Trial may be adjourned, in case of absence of either party.

personally, or at the place of business of the party, or by mail to his last known residence, if he has no place of business in Cincinnati. Unavoidable absence from the city, sickness, or the absence of material witnesses, shall be considered, at the discretion of the Board or Committees, cause for adjournment of trial.

Trials: how opened.

RULE 2. The trial shall be opened by a verbal or written statement of the case by the complainant, and be followed by a verbal or written statement by the respondent. Interruptions of the same shall not be permitted.

Testimony must be under oath.

RULE 3. All testimony introduced in trials before the Board or Committees shall be under oath; the oath, in cases before either the Committee of Arbitration or the Committee of Appeals, to be administered by a Judge or a Justice of the Peace of the County of Hamilton, State of Ohio, or other officer authorized, or to be authorized, to administer oaths in such cases.

Oath: how administered.

As to relevancy of testimony: how decided.

RULE 4. All questions as to the relevancy or admissibility of testimony shall be decided by the presiding officer. The party against whom the question of evidence is decided shall have the right of appeal to the Board or Committee trying the case.

Interrogatories by only one person on each side.

RULE 5. All interrogatories by contestants shall be put by only one person on each side, unless by consent of the Board or Committee.

Order of testimony.

RULE 6. The order of testimony shall be as follows:

- I. The evidence for the complainant.
- II. The evidence for the respondent.
- III. The evidence for the complainant in regard to new matter presented in the evidence for the respondent.

The evidence shall then close, except that it may be reopened in the interest of justice, by vote of the Board or Committee.

Cross-examination of witnesses.

RULE 7. The cross-examination of witnesses need not be confined to matters testified to in the direct examination, but can be extended to any matters necessary to make out the case of the party making the cross-examination.

Re-examination in chief.

RULE 8. The re-examination in chief shall be strictly confined to new matter introduced in the cross-examination.

Witnesses to testify from personal knowledge only.

RULE 9. Witnesses will only be permitted to testify as to facts within their own personal knowledge, and can not be allowed to state information given them by others.

Irrelevant testimony excluded.

RULE 10. The testimony must be confined to the matters in controversy, and all irrelevant facts must be excluded.

RULE 11. No impeachment of the general reputation of a witness for veracity shall be permitted.

Impeachment of reputation of witnesses not permitted.

RULE 12. Whenever books of account require any extended examination, or the papers presented are voluminous, the Board or Committee may refer the matter to one of their number, or to an accountant, for examination and report.

Accounts and papers may be referred.

RULE 13. Whenever the genuineness of the signature of any material paper, presented in evidence, is contested, the Board or Committee shall dismiss the case, unless both litigant parties shall agree to a final decision without reference to the question of the genuineness of the signature.

When genuineness of signature is contested.

RULE 14. Proof of agency must be established before the admissions of an agent can be received.

Proof of agency.

RULE 15. The Board and the Committees reserve the right to dismiss any case where the conflict in the testimony is such that it may be deemed improper to proceed to give a decision.

When cases may be dismissed.

RULE 16. In trials or investigations before the Board of Directors, the Committees of Arbitration or Appeals, or any other committee of the Association, no party shall be allowed to be represented by an attorney at law.

Parties not allowed to be represented by an attorney at law.

ARTICLE XIV.

NATIONAL BOARD OF TRADE.

SECTION 1. This Association having membership in the National Board of Trade, it shall be the duty of the Board of Directors, prior to each annual session of said National Board of Trade, to appoint delegates to the same, in number as prescribed by the rules of that body.

Board of Directors to elect delegates.

SEC. 2. The term of office of delegates to the National Board of Trade shall begin at the opening of its annual session, or at such time as shall be fixed by the said National Board.

When term of office begins.

SEC. 3. The delegates to the National Board of Trade shall be constituted a Committee to consider and report to the Chamber upon all subjects submitted by the National Board of Trade to the Chamber of Commerce, as well, also, upon all subjects proposed to be submitted by the Chamber of Commerce to the National Board of Trade.

Delegates to make reports.

ARTICLE XV.

CLERKS, MESSENGERS AND REPORTERS.

Clerks' tickets
how obtained.

SECTION 1. Each firm or business house, one or more of the members of which are members of the Association, upon the approval of the Board of Directors of the person for whom the application is made, shall be entitled to one or more clerks' tickets of admission to the daily Exchange meetings of the Association, on payment of the regular annual assessment of members, for each and every clerk; but the holder of a clerk's ticket must be in the employ of the member applying for the same, and he shall not have the right to transact any business in the Exchange rooms for any other person than the employer, to whom the ticket may have been issued. Any clerk's ticket, and all payments for the same, may be declared forfeited by the Board of Directors, upon satisfactory evidence that the person holding it has abused any of the privileges granted by it, or that he is not a *bona fide* employe of the person upon whose application it was issued.

Causes for for-
feiture of ticket.

Messengers.

SEC. 2. The Board of Directors shall be authorized, under such restrictions, regulations and limitations as it may deem proper, to grant admission to the Exchange rooms to messengers for members, such messengers not to be allowed to transact any business beyond communicating with their principal, and not to remain longer than is necessary for that purpose.

Reporters.

SEC. 3. Upon the approval of the Board of Directors, reporters of daily newspapers, published in the City of Cincinnati, may be admitted to the Exchange rooms, without charge.

ARTICLE XVI.

VISITORS.

Visitors can not
transact busi-
ness.

Visitors may be introduced to the Exchange rooms upon such conditions and for such time as the Board of Directors may determine. No person admitted as a visitor shall be permitted to transact any business in the Exchange rooms.

ARTICLE XVII.

PROHIBITED APPROPRIATIONS.

Appropriations:
what prohib-
ited.

No appropriation of money shall be made by the Board of Directors, or by the Association, for any other than the strictly legitimate business purposes of the Association.

ARTICLE XVIII.

AMENDMENTS.

These By-laws may be amended by a two-thirds vote of the members present and voting at any regular meeting of the Association, or at a special meeting called for the purpose; *Provided*, that the proposed amendments or alterations shall have been approved by a majority vote of the whole Board of Directors, and shall have been posted on the bulletin board for at least ten days prior to the meeting of the Association at which it is proposed to consider them

ARTICLE XIX.

The former Constitution, and all rules and regulations inconsistent with these By-laws, are hereby repealed. *Provided*, that the Board of Officers and all committees and appointees, holding office at the time of the adoption of this article, shall continue in their respective offices and duties, during the term for which they were elected, and until their successors are duly elected and qualified.

Repeal of former
constitution.

Exception for
present officers.

ANNUAL REPORTS
OF THE
TREASURER, SECRETARY AND SUPERINTENDENT
OF THE
CINCINNATI CHAMBER OF COMMERCE
AND
MERCHANTS' EXCHANGE.

REPORT OF THE TREASURER.

CINCINNATI, September 13, 1898.

WILLIAM MCCALLISTER, Esq.,

President of the Cincinnati Chamber of Commerce and Merchants' Exchange:

DEAR SIR—I have the honor to submit herewith my report of the Finances of the Chamber of Commerce for the fiscal year ending August 31, 1898.

Very respectfully,

C. A. HINSCH,

Treasurer.

STATEMENT OF RECEIPTS AND DISBURSEMENTS.

For the Year ending August 31, 1898.

Balance August 31, 1897.....			\$14,684 07
RECEIPTS.			
Membership Dues.....		\$31,350 00	
Clerks' Tickets.....		300 00	
Desk Rent.....		307 50	
Transfer Fees.....		205 00	
Interest (Bank Account).....		589 79	
Other Sources (Sale of Paper, etc.).....		23 41	
Rent Account (Rentals from Building).....		27,873 33	
			\$80,646 08
DISBURSEMENTS.			
Salaries.....	\$12,455 00		
Telegraph Reports.....	8,109 28		
Janitor Service.....	2,468 50		
Annual Report.....	1,198 17		
Telephone Service.....	1,100 00		
Expense.....	1,365 90		
Stationery and Printing.....	420 35		
National Board of Trade.....	442 40		
Ohio State Board of Commerce.....	307 80		
Ohio Valley Improvement Association.....	300 00		
Postage.....	234 14		
Legal Expenses.....	414 00	\$28,811 54	
Amounts forward.....		\$28,811 54	\$75,330 10

STATEMENT OF RECEIPTS AND DISBURSEMENTS.—Continued.

<i>Amounts brought forward</i>		\$28,811 54	\$75,380 10
Death Benefits (Sundry Claims Paid).....		5,000 00	
Interest on Bonds (\$150,000—4 per cent.).....		6,000 00	
CURRENT EXPENSES OF BUILDING, VIZ.:			
Wages.....	\$4,873 09		
Fuel.....	1,714 70		
Gas.....	517 40		
Water.....	402 60		
Building Supplies.....	528 39		
Building Repairs.....	730 67		
Building Expense.....	103 69		
Building Improvements (including Painting Interior of Building, Steam Heating Improvements and Renovation of Exchange Hall).....	2,642 90		
Insurance.....	165 00		
		\$11,676 44	
Taxes (Real Estate and Personalty).....		9,685 30	
			\$61,173 28
<i>Balance August 31, 1898</i>			\$14,156 82

Respectfully submitted,

Examined and approved:

EDWIN C. GIBBS,
W. A. GOODMAN, Jr., } *Finance Committee.*
W. B. MELISH,

C. A. HINSCH, *Treasurer.*

<i>Chamber of Commerce Building:</i>		
Total Cost to Completion (Lot, Building and Equipment).....		\$772,674 06
<i>Liabilities, August 31, 1898:</i>		
Chamber of Commerce Bonds, 4 per cent., 10-20s, dated Jan. 1, 1888, total issue..		\$150,000 00

REPORT OF THE SECRETARY.

CINCINNATI, September 19, 1898.

WILLIAM MCCALLISTER, Esq.,

President of the Cincinnati Chamber of Commerce and Merchants' Exchange.

DEAR SIR—I have the honor to submit herewith my report as Secretary of the Chamber of Commerce for the official term ending with this date. As customary, the report shall be in the nature of a review of the important or interesting matters which received the attention of the Board of Directors, or such of these as may properly be incorporated in a report of this character.

The Board of Directors was publicly installed into the service of the Chamber September 20, 1897, and, in this connection, it is but just and pardonable to bear public testimony to the intelligent, business-like administration which this Board has given to the affairs of the Chamber. The duties, which are many and considerable, have been performed in a manner which betokens fidelity to the trust and interest in the work which devolved upon them.

The membership of the Chamber has continued to show a reduction from year to year, although the falling off this year has not been so noticeable as previously. The total enrollment September 1, 1898, was 1,269, compared with 1,350 September 1, 1897, a falling off of 81; of this number 76 were certificate memberships forfeited for non-payment of annual dues. It must be understood that this continued decline in members is not necessarily an evidence of waning popularity of the Chamber so much as a righting of the unusual conditions which have previously existed, the opinion being general that the membership of the Chamber for years past has been too large, or, in other words, inflated beyond the business necessities. In a direct way the decline in membership has affected the revenues of the Chamber from that source, which is reflected in the Treasurer's annual report.

As customary for years past, the Chamber has continued its membership in the National Board of Trade. The Chamber was one of the organizers and charter members of the National Board, and has always been recognized as one of the most influential constituent members of that body. The delegates appointed to attend the annual meeting in Washington, December, 1897, contributed many important questions to the programme of topics for consideration by that body, and the result of its deliberations has been generally gratifying.

The Chamber has also continued membership in the Ohio State Board of Commerce, and sent delegates to the annual meeting at Columbus, January 19, 1898. A representation was also had at the meeting of the Ohio Valley Improvement Association at Evansville, October 12, 1897; Western Water Ways Convention, Davenport, Iowa, October 5, 1897; Indianapolis Monetary Convention, January 25, 1898; Conference at Washington on Improvement of the Channel of the Mississippi; National Hay Association at Buffalo, August 9, 1898.

It is with much regret that we have to record the death, on October 24, 1897, of WILLIAM L. HUNT, First Vice-President of the Chamber, and member of this Board. At the time of his death, Mr. HUNT was serving his second year as Vice-President, having formerly, in 1886-87 and 1887-88, served as Director, and as Treasurer in 1888-89. Mr. HUNT was an affable gentleman, a conscientious, capable official, and beloved and respected by all who knew him. Appropriate action was taken by the Board.

The vacancy in the Board of Directors thus occasioned by the death of Mr. HUNT, was filled by Mr. O. L. PERIN, whose election as First Vice-President was without opposition, November 9, 1897.

One of the questions which the Board was early called upon to consider was that of an amendment to Article XX (Death Benefit clause of the By-Laws), brought up by petition of members. The amendment, as at first proposed, was not wholly approved by the Board, but, with certain modifications, it passed the Board and was submitted to the Association for a special election, which was held February 24, 1898. The total vote cast was 546—yes, 305; no, 241. This amendment differed from previous efforts to amend Article XX, in that, instead of providing for the total repeal of the clause, it was designed to limit the payment of Death Benefits to \$100.00, and confine its payment to the widow, or children, or parents of the deceased. It was believed that such a modification would be less cumbersome and less of a tax upon the Chamber than the existing requirement, and would meet all objections and pass the Association, but the amendment was defeated, and Article XX remains intact. The report of the Law Committee, which is the standing committee of the Board to scrutinize and pass upon Death Claims, shows that for the year ending August 31, 1898, 20 claims were paid, aggregating \$5,000, with a number of claims pending and unfilled.

A Transportation Committee was appointed by the Board of Directors November 2, 1897, the creation of which committee was deemed desirable for the purpose of passing upon such transportation questions as might be referred to it. This was the first standing committee of this character appointed in several years, the former Freight Bureau, with which the Chamber had been identified, was the natural channel for the reference of transportation and rate questions.

By the death of Mr. CHARLES FLEISCHMANN, a vacancy was created in the Board of Trustees of the Schmidlapp Fund for music in Eden Park, to which Trusteeship Mr. JULIUS FLEISCHMANN was appointed by the Board of Directors, January 4, 1898, to succeed his father. By this appointment the Chamber is thus represented in the Board of Trustees in accordance with certain provisions of the Schmidlapp bequest.

Sundry new rules to meet requirements from time to time were adopted by the Board as follows:

The Grain Inspector's fees allowed under the rules, for the inspection of grain, were increased from 30 cents to a uniform rate of 40 cents per car, irrespective of the capacity of the car; effective January 15, 1898.

Rule 3, of the Rules for the Government of the Exchange, was modified February 1, 1898, so that persons having unsettled controversies with members should not be entitled to admission to the floor as visitors. To the existing Rule 3 the following words were added:

"No person shall be introduced as a visitor who, being in arrears to a member upon any business transaction, refuses to arbitrate or adjust same before the proper committees of the Chamber of Commerce."

The question of the inspection of grain at the C. & O. yards in Covington was brought to the Board's attention and committee appointed to report. The report was favorable and a regulation was adopted by the Board, August 2, 1898, recognizing the C. & O. yards in Covington as regular for the inspection of grain, on condition that the grain is to be placed on special track, and the Inspector to be notified on 'Change of arrival and location, and that the Car Service rules should be applicable to such consignments for Cincinnati inspected at Covington, similar to rules applying to arrivals of grain inspected at other outlying points, such as Ivorydale, Pendleton, etc.

The Board also adopted, on the recommendation of the Grain Committee, a requirement prohibiting members from entering the Inspector's office, and that business with that official should be done from the outside through the window openings intended for that purpose.

Weighing Rule No. IX, Section 6, was amended by the addition of these words:

"Original and duplicate certificates shall be furnished to the party ordering the weighing, and copy shall be given to any member representing to the Weigher that he is the seller of the property weighed."

A general revision of the rules for the various departments of trade—grain, hay, flour, weighing, provisions, etc.—was considered by the Board and committees appointed for this purpose. A revision of the rules has seemed to be a necessity for some time past, under a changed condition in business practice and customs, which have, to some extent, outgrown the present rules, particularly those of the grain trade. These committees on revision were appointed late in the fiscal year, and so far no reports have been made.

From time to time the Board has been called upon to give expression to various questions and measures which have invited the public attention and comment. Among the questions so considered by the Board were the following: Resolutions were adopted April 5, 1898, recognizing the importance to our commercial interests of a revival of reciprocal trade relations with Canada; resolutions commending the proposed National Exposition of American Manufacturers, to be held in Philadelphia, in 1899; resolutions approving of the establishment of an International American Bank, but disapproving of the Senate bill, which provided for the granting of such a charter to a special corporation for that purpose; resolutions relating to the Philippine Islands and the questions involved in their acquirement by the United States.

Necessary improvements in the interior of the Chamber of Commerce Building have been made during this year. The heating arrangements of the Exchange Hall have been changed, and additional steam radiators put in, which have materially and satisfactorily improved the heating of this room. The cost was approximately \$600. The halls, corridors, stairways, etc., in the building have been painted and the walls and ceiling of the Exchange Hall have been renovated and painted, the first time since it was decorated in 1889. These painting improvements cost about \$1,200.

The weighing problem was again brought to the attention of the Board. With a view of improving the weighing service and methods, the Committee on Weighing recommended that the system should be partially changed by the creation of the office of Chief Weigher, with duties of a supervisory character over the other appointees of the Chamber in the weighing service. This proposition was fully considered, but it was not a popular one, and its advantages were not apparent to the Board.

It may be of interest to note in this review that the Chamber was instrumental, in co-operation with other Exchanges in the State, in securing the defeat of legislation which threatened the establishment of a State Department of Inspection and Weighing of grain, a measure which was wholly without justification, as well as impracticable, and which was bitterly opposed and finally defeated.

The establishment of a United States Commissary Post in Cincinnati, which was suggested by our proximity to the southern camps, and nearness to the base of operations of the Government in the Cuban campaign, was a matter which was vigorously prosecuted by the Chamber. The question was opened up by correspondence, and by the persistent work of a special committee, which went to Washington in this interest, the War Department was induced to establish a Commissary Post in this city. This movement was followed by a similar effort to secure a Quartermaster's Depot at this point. The advantages of location, our nearness to the South, and other reasons appealed strongly to the War Department, and a Quartermaster's Depot was also established here. The acquisition of these departments to Cincinnati was hoped to be commercially beneficial to our city, and the success achieved in securing them reflects credit upon the Chamber and upon all who were concerned in it.

The legal proceedings instituted last year by a member of the Chamber, who had been suspended from the privileges, wherein he sought to be restored to good standing, and which was decided in favor of the Chamber, were carried by the complainant member to the Circuit Court, where the Chamber was again successful. In its defense the Chamber of Commerce was represented by DRAUSIN WULSIN, Attorney, who has had charge of the case from the beginning.

Mr. PARIS C. BROWN, for many years an active member of this Association; a conspicuous figure in the affairs of the Chamber, and former member of four previous Boards of Directors, was unanimously elected an honorary life member September 12, 1898.

The Association records reveal the following facts which have been arranged in chronological order as far as possible. Necessarily, much of the records of the doings of the Chamber are omitted, but the actions here recorded reflect to considerable extent what took place during the year.

October 1, 1897: The Committee on Relief of Ohio Miners makes report, showing total collections of money and supplies to have been \$2,044.30.

October 18, 1897: The Western Foundrymen's Association, holding convention in this city, were visitors on 'Change this day.

October 20, 1897: Resolutions adopted protesting against the threatened removal of the 6th Regiment, U. S. Infantry, from Fort Thomas to a distant post.

October 28, 1897: Senator HANNA was a visitor to the session of the Chamber of Commerce to-day.

October 30, 1897: A reception was tendered President MCKINLEY by the Chamber of Commerce to-day. The President was escorted on 'Change by a Reception Committee, where brief formal ceremonies took place; the occasion naturally assumed the proportions of a public demonstration, and was of a most impressive and interesting character.

November 16, 1897: Resolutions were adopted reaffirming the previous action of the Chamber on the question of National Bankruptcy Legislation, and endorsing bill known as the Torrey Bankrupt Bill.

November 24, 1897: Judge TORREY, author of the Torrey Bankrupt Bill, was invited to make address on Bankruptcy Legislation. Unfortunately, the Judge could not respond.

December 16, 1897: General JOHN P. S. GOBIN, Commander-in-Chief G. A. R., and his party, were the guests of the Chamber at its session to-day.

December 21, 1897: Resolutions were adopted appealing to the General Assembly of Ohio to so modify the act of April 14, 1893, so that the time for the equipment of freight cars in this State with automatic couplers, as required by that act, should be extended from January 1, 1898, to January 1, 1900, a real necessity in view of the practical impossibility of complying with the requirements.

December 29, 1897: Resolutions were adopted towards securing a Congressional appropriation for the improvement of the Big Sandy River.

January 15, 1898: JOHN A. GANO, honorary life member of the Chamber of Commerce died this day. His death was announced on 'Change and a special committee appointed to prepare memorial resolutions. Funeral services were held in the Chapel at Spring Grove Cemetery, January 19, a large number of members being present. Memorial exercises were held by the Chamber of Commerce, January 27, in the Exchange Hall. On this impressive occasion the committee's memorial report was read, and a eulogy of the deceased delivered by Mr. MICHAEL RYAN, and other tributes offered. Ceremonies of this nature are unusual in the affairs of the Chamber, but the prominence of JOHN A. GANO, his high personal character and ability, his long identity with the Chamber of Commerce as an official and member, his distinguished services to the institution in its early history and its later years, fully justified the occasion which gave opportunity for a public expression of the admiration, esteem, and respect in which Mr. GANO was held by his fellow members.

February 14, 1898: Resolutions were adopted protesting against the passage of a bill pending in the General Assembly (H. B. 26) designed to regulate the operations of steam engines and boilers, and providing for a system of classification of steam plants and the grading and licensing of engineers. The whole plan was hedged around with impracticable visionary requirements, so as to seriously impair and embarrass manufacturing and industrial interests.

February 16, 1898: A delegation of gentlemen from Omaha were the guests of the Chamber to-day. Their mission in the city was in behalf of the Trans-Mississippi International Exposition, to be held in Omaha this year, and to arouse interest in that Exposition. The delegation was appropriately entertained by a reception committee and escorted on 'Change where greetings were exchanged.

February 18, 1898: Resolutions were offered deprecating the insurrection which had been going on in Cuba for a year or more past, which had been the cause of serious disturbance to the commercial interests of the United States; asserting the necessity for a cessation of hostilities on these as well as on humanitarian grounds, and calling upon the President and Congress to take immediate steps to interfere and bring the struggle to a close. These resolutions did not meet with favor, and on February 23 they were voted down by the Chamber.

March 4, 1898: Resolutions were adopted endorsing an Ohio exhibit at the Trans-Mississippi Exposition at Omaha, and requesting an appropriation by the General Assembly for that purpose.

March 11, 1898: Resolutions were this day adopted approving of bill pending in Congress, providing for an appropriation for the maintenance and protection of the levee system of the Mississippi River.

Resolutions were offered at this meeting endorsing the attitude of the Administration in its controversy with Spain, growing out of hostilities in Cuba and other complications. Laid over to the 29th instant.

March 29, 1898: The following Cuban resolutions were offered as a substitute for those of March 28, and were adopted by the Chamber amidst much enthusiasm:

WHEREAS, The policy of the United States has, for years, been one of universal peace, and the amicable adjustment of international controversies through diplomatic negotiations, having for their object the maintenance of friendly relations with all nations, and the incidental avoidance of the sufferings, loss of life, and wastages of sanguinary conflicts; and,

WHEREAS, The present Administration has strictly adhered to this policy, and wisely employed every means of diplomacy for the proper and peaceful redress of well-founded grievances; and,

WHEREAS, In view of the heroic and unparalleled self-sacrifices and struggles of the Cubans for freedom; the sorrows, sufferings, cruelties, and starvation imposed by the policy of the Spanish Government upon defenseless women and children; and the treacherous destruction of the "Maine," with its attendant loss of life, that Government is no longer entitled to the confidence and respect of civilized nations; now, therefore, be it

Resolved, That from this time forth, we insist that the honor and dignity of this Nation demand the enforcement of a firm and vigorous policy which will have for its purpose—peacefully if we can, but with force if we must—the redress of past wrongs, and the complete and unqualified independence of Cuba.

On this date was also approved a report of a special committee, disapproving of Senate Bill 158, imposing conditions upon the Live Stock Trade doing business in this State, which were considered both unnecessary and unwise, and which would seriously hamper that industry. The bill provided for certain sanitary regulations.

April 4, 1898: A committee was appointed on relief of Shawneetown, Ill., flood sufferers.

April 12, 1898: A mass meeting was held on 'Change to-day, presided over by Mayor TAFEL, for the consideration of questions concerning the Cincinnati Southern Railway. The Chamber, as an Association, was represented in this meeting, and the action taken reflects the sentiment of the Chamber. Following is the resolution adopted:

WHEREAS, A bill for the extension or modification of the lease of the Cincinnati Southern Railway has, after long and careful consideration by the commercial organizations of the City of Cincinnati, received their unanimous endorsement, and been proposed to the General Assembly of the State of Ohio, and has been introduced into the Senate by the Hon. LEWIS VOIGHT, and its passage is a special order for Wednesday, the 13th instant.

WHEREAS, The provisions of said bill will simply enable the taxpayers of Cincinnati, through their legally constituted agents, the Boards of Railroad and Sinking Fund Trustees, to negotiate, subject to approval by the people, in a matter in which the taxpayers of Cincinnati alone are financially interested.

WHEREAS, Said bill is mandatory only in the provisions which require approval by a majority of each Board, and the submission of every detail to final action by the people.

WHEREAS, Said bill does not undertake by imposing limitations upon the Boards, or upon the will of the people to forestall the settlement of details, but leaves terms and conditions open to intelligent negotiation and the widest competition, subject to final approval at the polls.

WHEREAS, Grave embarrassment and wide differences of opinion necessarily attend any effort by legislative action to fix limitations upon the term of lease or amount of rental, and it is essential that in future negotiations, the owners of the road be free to act in the disposition of their property as circumstances may direct.

WHEREAS, The passage of this bill, which is of general application in its terms, can not affect any existing corporate or municipal right outside of the City of Cincinnati.

WHEREAS, Under existing conditions, it is of the highest importance to the best interest of the City of Cincinnati, that said bill be passed at the present session of the General Assembly; therefore, be it

Resolved, That the citizens of Cincinnati, assembled in mass meeting at the Chamber of Commerce in said city, do most respectfully, but firmly, request of the Hamilton County delegation, and of all members of the General Assembly, the early passage of this bill, without change of form or principle.

Resolved, That taxpayers of every class be requested to earnestly urge upon their representatives in the General Assembly the immediate passage of the bill, as being preeminently a bill for the protection and relief of the taxpayers of Cincinnati, in handling their own property.

April 18, 1898: Resolutions were adopted approving of an election upon amendment of Article XII of the Constitution of the State of Ohio, to provide for the levying of taxes.

April 19, 1898: The Sixth Regiment, U. S. I., stationed at Fort Thomas, departed for the South to-day, en route to the seat of war in Cuba. A Chamber of Commerce delegation acted as escort, and other organizations participated.

April 22, 1898: RICHARD SMITH, an honorary life member of the Chamber of Commerce, died this day. Mr. SMITH was one of Cincinnati's foremost citizens, conspicuously identified with the early history of the affairs of the Chamber, which he served for many years as Superintendent and Secretary. A committee was appointed to prepare memorial report.

April 28, 1898: The First Regiment, O. N. G., departed this day for Columbus, to be mustered in as volunteers in the Cuban war. A delegation of Chamber of Commerce officials and other civic and semi-military organizations made up the escort.

May 18, 1898: The Chamber had as its guests to-day a delegation of gentlemen from Jackson, Mich., representing the Welfare Association of that city. Their presence here to-day was by invitation, and in the nature of a reciprocation

of the courtesies extended by that Association to a delegation of our members upon the occasion of their visit to Jackson in February, 1897, in celebration of the opening of the C., J. & M. Railroad. The visitors were nicely entertained, and were brought on 'Change where exchange of friendly greetings took place.

May 21, 1898: This day was fixed on our local calendar as "Dewey Day," in celebration of the great naval victory achieved by Admiral DEWEY. There was a street parade, in which members of the Chamber took part.

May 31, 1898: Resolutions were adopted requesting of the War Department that in the assignment of volunteers enlisting in the regular army, that company and regimental formations should remain intact.

June 14, 1898: The National Association of Local Freight Agents, holding convention in this city, were visitors on 'Change to-day, where an appropriate reception and speech-making took place.

July 20, 1898: Resolutions were adopted this day providing for the appointment of a committee of members to act in carrying out a plan for the erection of a Memorial Tablet at Fort Thomas, dedicated to the memory of the officers and soldiers of the Sixth Regiment, U. S. I., whose lives were lost in the Cuban engagements.

August 31, 1898: The Association took action this day, appropriating the sum of \$500, to be expended in rendering medical aid and other necessary relief to the sick Ohio soldiers in southern camps. A committee was appointed to take this matter in charge and co-operate with other similar organized movements.

September 15, 1898: The First Regiment, formerly O. N. G., who enlisted as volunteers in the Cuban campaign, which left Cincinnati April 28, last, arrived home to-day. A delegation of members of the Chamber marched to the depot to welcome the regiment home.

September 16, 1898: In view of the expected return to Fort Thomas, in a few days, of the gallant Sixth Regiment, U. S. I., a committee was appointed to arrange for an appropriate public reception by our Chamber and citizens.

The following members of the Chamber died during the fiscal year ending August 31, 1898:

THOMAS H. MORRISON,
WILLIAM P. ANDERSON,
CHARLES FLEISCHMANN,
GEORGE W. CLERIHEW,
BENNEVILLE KLINE,
CHRISTIAN KLEIN,
A. R. LAFFERTY,
FREDERICK SCHMIDT,
W. P. WALKER, JR.,
PETER W. SCHNEIDER,
GEORGE E. CURRIE,

WILLIAM L. HUNT,
JAMES MCKEEHAN,
J. B. HAMMER,
JOSEPH VON HOLLE,
JULIUS J. BANTLIN,
WILLIAM S. MELLEN,
BERNHARD HEUCKMANN,
CHARLES L. COLBURN,
MAY FECHHEIMER,
WARREN RAWSON,
LEWIS MAYER,

GEORGE HUBBELL,
THOMAS D. LOVETT,
J. B. LOVELL,
JOHN BARRETT,
JOHN A. GANO,
ALBERT M. STIMSON,
RICHARD SMITH,
CHARLES F. MUTH,
JOHN A. WILLIAMSON,
FREDERICK H. ALMS.

Respectfully submitted,

CHARLES L. GARNER,

Secretary.

REPORT OF THE SUPERINTENDENT.

CINCINNATI CHAMBER OF COMMERCE, }
June, 1899.

THE PRESIDENT AND BOARD OF DIRECTORS:

GENTLEMEN—In presenting herewith the Fiftieth Annual Report of the Cincinnati Chamber of Commerce, it is believed that the volume will be found to be as meritorious as those which have preceded, in records and history of such interests as have concerned the membership of our organization. The general exhibits are for the calendar year 1898, with comparisons for previous calendar years back to 1892, when the change was made from statements for commercial years ending August 31. For years prior to 1892 the exhibits and comparisons are for such commercial year periods.

These reports in late years have included much of data and information other than local in nature, which features have increased their value as works of reference. They are recognized very widely in this country and extensively abroad for the scope and extent of commercial information which they embrace.

The effort to give fuller recognition to the manufacturing activities of our city has been continued, and although the inquiries have not been as uniformly responded to as could be wished, still the returns from the large number of houses which have given recognition to this effort have served an important purpose in reaching general conclusions. They have enabled the Chamber of Commerce, through these reports, not only to offer statements indicating the relative volume of such industrial operations, from year to year, but likewise to promulgate lists of manufactures which are being and can be supplied for exportation to foreign markets, by our local factories.

Copies of this Report are available to all members of the Association, and will be furnished to others desirous of being possessed of the information which it presents.

Respectfully,

CHARLES B. MURRAY,
Superintendent and Executive Secretary.

THE CHAMBER OF COMMERCE.

The Cincinnati Chamber of Commerce began existence as an organization in the latter part of the year 1839. It occupied quarters in the College Building for many years; subsequently was located twelve years in Smith & Nixon Hall, going to Pike Opera House in 1881, and removing to its own building in January, 1889. Its present membership is 1,269; annual dues \$25. It is not only a trading exchange, but gives much of deliberative attention to public measures, of a local and general nature. Its conservative treatment of such questions has secured for it marked recognition and influential consideration. The Exchange provides its membership very fully with daily telegraphic market information, covering prominent domestic and foreign markets. Also, weather reports, river stages, etc. The cost of the Chamber of Commerce Building was \$675,000, including general equipment, which, with the value of the ground upon which the building stands, represents a total of approximately \$1,000,000. The Association's indebtedness is \$150,000, bonded, payable in 1908, bearing 4 per cent interest.

THE CITY OF CINCINNATI.

The City of Cincinnati, bordering on the Ohio River, which represents a line between States, is deprived of the significance which it really has in comparisons of population, for the reason that a large portion of this centralization is separated from the records of the city corporation. The city proper now has a population of approximately 380,000; the adjacent belongings, about 150,000—making in all 530,000, as fairly representing our population. The growth is not rapid. The locality is one of steady and substantial progress in development. The climate is healthful and agreeable. The surroundings are interesting to the observer for the variety and picturesqueness of scenery and conditions. The facilities for rapid transit in and about the city are unexcelled.

The industrial activities of this locality largely represent manufacturing operations, covering a wide range of lines and interests. The number of establishments, large and small, reaches about 9,000. The capital employed is about \$125,000,000. The value of real estate occupied is about \$75,000,000. Number of hands employed, about 125,000. Value of product in 1898, about \$270,000,000. In various lines our city leads, and in many others is notably prominent, in comparison with other manufacturing centers.

Much has been done in the past by manufacturing establishments at Cincinnati in furnishing products for exportation to foreign markets, and in this there is an increasing volume of operations, and enlargement of lines of articles for such distribution. The high reputation acquired for our products, with the favorableness of cost, are elements calculated to secure a further expansion in in this direction.

THE COMMERCE OF CINCINNATI.

The expectations of continued advancement in revival of industrial activities in this country which prevailed at the close of the preceding year were, in a general way, realized for the year 1898. The progress was more or less irregular, under influence of uncertainties existing early in the year in respect to the outcome and the influence on our commerce of international controversies, which culminated in a declaration of war with Spain, in April, resulting from questions incident to the prolongation of the Cuban insurrection. And later in the year there was some apprehension as to the result of the elections as reflecting the condition of public sentiment upon monetary questions. In the conflict with Spain this country so quickly and so decidedly displayed mastery of the situation that any lacking of confidence was removed. The result of the elections was to emphasize the certainty and stability of the sound-money sentiment.

The evidences of resource and power of this country were never so forcefully displayed and brought to the world's recognition as in the past year. The extraordinary requirements of the Government in matters of money and of men for army and navy service were promptly met, and without disturbance to financial or industrial affairs. The introduction of special revenue taxes had no visible ill-effect upon business concerns.

The year was one of good crops and fair prices, of increase in manufacturing operations, of expansion in exportation of domestic products, of increase in speculative dealings and in bank clearings, of decrease in business failures, of enlarged railway earnings and revival in track construction, and in various other ways reflecting conditions favorable to prosperity. Little is to be recorded of an adverse nature, beyond the burdens of debt assumed by the Government and increased taxation imposed upon the people, incident to prosecution of the war.

The cereal crops of the country as officially estimated for the harvests of 1898 reached an aggregate of 3,423,000,000 bushels, compared with 3,240,000,000 in 1897, and an annual average of 3,108,000,000 bushels for five years prior to 1898. The marketing of live stock largely exceeded any previous year, indicated by a total of 35,400,000 shown for the number killed at markets for which there are records, compared with 31,500,000 for the preceding year, and an annual average of 29,500,000 for five years prior to 1898. The bank clearings of the country, so far as recorded, were \$68,884,000,000, compared with \$57,322,000,000 for 1897, an increase exceeding 20 per cent, and compared with \$52,340,000,000 as the average annual clearings for five years prior to 1898. The number of business failures was 12,186, compared with 13,351 for the preceding year, and an annual average of 14,152 for five years prior to 1898. The amount of liabilities involved in the year's failures was \$130,663,000, compared with \$154,332,000 for 1898, and an annual average of \$214,680,000 for five years prior to 1898. Railroad gross earn-

ings increased to a degree without precedent, amounting in the aggregate to approximately \$1,120,000,000 for lines which represented \$1,040,000,000 for the preceding year, indicating a gain of about 8 per cent. The value of products exported from the United States in 1898 far exceeded any previous record, showing a total of \$1,231,000,000, compared with \$1,051,000,000 for the preceding year, and an annual average of \$896,000,000 for five years prior to 1898, and \$842,000,000 for the preceding period of five years. The excess of exports over imports was \$615,000,000, compared with \$286,000,000 for the preceding year, and an annual average of \$136,000,000 for five years prior to 1898.

The foregoing general statements indicate the more important changes the past year which have counted favorably for this country. Cincinnati shared in the features of improvement. Merchandising operations were increasingly active, and manufacturing industries made a decided advance. This city is especially conspicuous in production of manufactures, and the returns for the past year show a gain of 8 per cent over the improved position of the preceding year, carrying the record above anything previously reached. Estimates based on a large amount of information obtained by the Chamber of Commerce suggest about \$270,000,000 as the value of manufactures of this city and immediate vicinity for 1898. This compares with \$250,000,000 for the preceding year, and an annual average of \$235,000,000 for five years prior to 1898. Many classes of products of local manufacture find distribution through exportation to foreign markets, which feature of trade is expanding.

The increase in bank exchanges at Cincinnati was about $3\frac{1}{2}$ per cent compared with 1897, and $10\frac{1}{4}$ per cent compared with 1896, the aggregate showing \$646,000,000, against \$626,000,000 for 1897, and an annual average of \$630,000,000 for five years prior to 1898. The fact that there was a decided increase for the first half of the year, and some decrease for the second half, gives color to the surmise that the stamp tax applicable to bank checks had some influence in curtailing the use of checks in the later months of the year, which, if correct, would affect the comparison of clearings.

Receipts of Grain were reduced over $6\frac{1}{2}$ per cent compared with the high record for 1897, but there was an increase of $24\frac{1}{2}$ per cent in comparison with the annual average for five years prior to 1898. In comparison with the preceding year, the receipts of Flour increased 17 per cent; of Hay, 22 per cent; of Coal, $6\frac{1}{2}$ per cent; of Lumber, 23 per cent; of Hides, 22 per cent; of Leather, 50 per cent; of Boots and Shoes, 12 per cent; of Grass Seed, 14 per cent; of Meats, 17 per cent; of Green Vegetables, 27 per cent; of General Merchandise, 14 per cent, etc. There were decreased receipts in some lines, including Leaf Tobacco, Wool, Lead, Dried Fruit, etc. The increase in shipments include Flour, Hay, Lumber, Soap, Starch, Hides, Leather, Oil, Furniture, Hardware, Unclassified Manufactures and Merchandise, etc. Shipments of Meats were increased 26 per cent. Including receipts and sales for direct shipment, there was an increase of 26 per cent for Petroleum and 47 per cent for Pig Iron. The estimated valuation of shipments of all products covered by records was increased nearly 15 per cent.

The local production of Spirits was increased $6\frac{1}{2}$ per cent, compared with the preceding year; of Malt Liquors, a small increase; of Soap, an increase of 5 per cent; of Boots and Shoes, 10 per cent; of Leather, 20 per cent; of Vehicles, 10

per cent; of Furniture and Office Appliances, 7 per cent; of Harness, Saddlery, etc., 15 per cent, etc. Sales of Dry Goods, in value, were but slightly increased; of Clothing, an increase of 2½ per cent; of Groceries, an increase of 6 per cent. River and Railroad Transportation traffic was enlarged as to tonnage, and general results were more favorable than the preceding year.

The foregoing general summary of business conditions at Cincinnati will afford an indication of the situation in 1898, compared with the preceding year, and otherwise, as disclosed by the statistical exhibits in detail. In much the larger proportion the comparisons are favorable for 1898, and in various instances the records surpass any previous year in volume and value of output of local factories.

The accompanying tabulation affords a comprehensive comparison of changes in trade and industrial interests in this market during the past five years, the exhibit representing calendar years:

ARTICLES.	1898	1897	1896	1895	1894
Value of Commodities received.....	\$313,767,000	\$276,000,000	\$270,000,000	\$302,000,000	\$295,000,000
Value of Manufactures.....	\$270,000,000	\$250,000,000	\$225,000,000	\$235,000,000	\$225,000,000
Clearing-House Exchanges.....	\$646,000,000	\$627,000,000	\$586,000,000	\$661,000,000	\$643,000,000
Dry Goods, sales.....	\$34,500,000	\$34,350,000	\$31,475,000	\$33,625,000	\$32,885,000
Clothing, sales.....	\$21,250,000	\$20,750,000	\$18,875,000	\$19,650,000	\$18,700,000
Grain received, bushels.....	25,400,000	27,200,000	21,300,000	17,800,000	19,300,000
Value of same.....	\$9,703,000	\$8,100,000	\$6,300,000	\$7,300,000	\$8,700,000
Flour received, barrels.....	2,318,000	1,985,000	1,985,000	1,890,000	1,475,000
Value of same.....	\$7,535,000	\$6,450,000	\$5,160,000	\$4,730,000	\$5,025,000
Live stock received, head.....	1,693,000	1,677,000	1,815,000	1,795,000	1,800,000
Value of same.....	\$15,770,000	\$14,660,000	\$15,500,000	\$16,800,000	\$17,400,000
Pig iron, total sales, tons.....	1,732,000	1,445,000	1,238,000	1,286,000	995,000
Value of same.....	\$19,925,000	\$16,620,000	\$15,470,000	\$17,360,000	\$13,845,000
Manufactured iron received, tons.....	176,000	177,000	127,000	174,000	121,000
Value of same.....	\$7,050,000	\$7,090,000	\$5,080,000	\$6,970,000	\$4,365,000
Coal received, bushels.....	83,943,000	78,762,000	79,689,000	70,143,000	76,500,000
Value of same, first hands.....	\$4,450,000	\$4,490,000	\$4,385,000	\$4,210,000	\$4,970,000
Whisky produced and rec'd, gallons.....	21,100,000	19,300,000	19,600,000	20,600,000	27,800,000
Value of same.....	\$28,200,000	\$24,200,000	\$24,600,000	\$25,600,000	\$34,300,000
Beer and Ale made, gallons.....	40,800,000	40,700,000	40,800,000	41,500,000	39,100,000
Value of same.....	\$8,000,000	\$7,500,000	\$7,600,000	\$8,000,000	\$7,500,000
Leaf Tobacco, at warehouses, hhd's.....	50,200	50,600	68,000	80,500	76,600
Leaf Tobacco, cases received.....	34,200	32,600	28,300	30,200	35,600
Value of Leaf Tobacco.....	\$6,700,000	\$9,000,000	\$6,700,000	\$10,500,000	\$10,750,000
Petroleum, total sales, barrels.....	1,642,000	1,116,000	1,150,000	1,180,000	1,754,000
Value of same.....	\$5,995,000	\$3,908,000	\$4,450,000	\$4,840,000	\$6,140,000
Lumber received, cars.....	40,100	82,600	81,000	86,500	29,900
Value of same.....	\$12,000,000	\$10,800,000	\$10,000,000	\$11,000,000	\$9,000,000
Lead received, tons.....	13,600	23,000	30,600	20,800	20,500
Value of same.....	\$1,025,000	\$1,685,000	\$1,710,000	\$1,300,000	\$1,260,000
Hay received, tons.....	135,000	110,500	77,000	99,000	98,000
Value of same.....	\$1,170,000	\$1,085,000	\$940,000	\$1,260,000	\$1,075,000
Wool received, bales.....	16,900	45,600	22,700	26,300	52,300
Value of same.....	\$840,000	2,280,000	\$810,000	\$975,000	\$2,040,000
Leather manufactured, value.....	\$6,000,000	\$5,000,000	\$4,500,000	\$5,000,000	\$4,500,000
Leather received, bundles.....	152,300	101,900	97,200	66,300	74,400
Value of same.....	\$4,875,000	\$3,260,000	\$3,000,000	\$2,900,000	\$2,800,000
Boots and Shoes manuf'd, value.....	\$11,000,000	\$10,000,000	\$7,750,000	\$6,500,000	\$7,500,000
Boots and Shoes received, cases.....	244,200	221,700	212,300	210,600	220,400
Value of same.....	\$7,445,000	\$6,650,000	\$6,370,000	\$6,530,000	\$5,735,000
Coffee received, bags.....	358,000	847,000	279,000	243,000	216,000
Value of same.....	\$3,940,000	\$5,900,000	\$6,135,000	\$6,070,000	\$5,460,000
Sugar received, barrels.....	267,000	277,000	250,000	287,000	264,000
Value of same.....	\$4,940,000	\$4,150,000	\$3,550,000	\$4,345,000	\$4,320,000
Groceries, sales.....	\$19,600,000	\$18,500,000	\$17,500,000	\$19,250,000	\$18,900,000
Starch manufactured, pounds.....	39,500,000	31,500,000	33,000,000	28,600,000	28,400,000
Value of same.....	\$785,000	\$750,000	\$850,000	\$820,000	\$805,000
Soap shipped, boxes.....	1,573,000	1,546,000	1,429,000	1,287,000	1,266,000
Value of same.....	\$7,865,000	\$7,730,000	\$7,145,000	\$6,400,000	\$6,330,000
Meats shipped, pounds.....	104,400,000	121,900,000	111,600,000	107,300,000	80,500,000
Value of same.....	\$5,060,000	\$6,900,000	\$6,005,000	\$6,840,000	\$6,500,000
Carriages manufactured, value.....	\$10,500,000	\$9,500,000	\$9,000,000	\$9,500,000	\$9,000,000
Furniture manufactured, value.....	\$7,750,000	\$7,250,000	\$7,000,000	\$7,500,000	\$7,000,000
Machinery manufactured, value.....	\$6,750,000	\$6,000,000	\$5,750,000	\$6,000,000	\$5,500,000
Saws, etc., manufactured, value.....	\$3,750,000	\$3,750,000	\$3,500,000	\$3,750,000	\$3,500,000
Harness, etc., manufactured, value.....	\$4,000,000	\$3,500,000	\$3,250,000	\$3,500,000	\$3,000,000

A detailed exhibit is herewith presented in comprehensive form, representing annual average prices of standard grades of the products mentioned, in this market, according to records of the Chamber of Commerce, for the past six calendar years, and previously for commercial years ending August 31:

ARTICLES.	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888
Flour, spring family.....	3.90	3.72	2.89	2.79	2.47	2.95	4.20	4.60	3.84	4.49	3.88
Flour, winter family.....	3.43	3.55	2.90	2.72	2.10	2.80	3.65	4.04	3.29	4.03	3.52
Wheat.....	86	89	72	65	54	64	90	99	83	93	85
Corn.....	34	26	27	41	45	44	48	60	36	37	52
Oats.....	27	21	20	27	35	32	33	48	27	26	33
Mess Pork.....	9.73	8.34	8.04	10.65	12.98	18.46	11.68	10.72	11.29	13.13	14.55
Hams, sugar-cured.....	8.73	9.91	10.29	9.96	10.60	13.22	11.04	10.18	10.81	11.56	11.23
D. S. Short Rib Sides.....	5.37	4.76	4.19	5.62	6.79	9.36	6.92	5.72	5.19	6.82	7.75
Lard.....	5.06	4.02	4.29	6.24	7.25	9.91	7.21	6.11	5.94	7.41	7.64
Butter, creamery.....	16.46	15.45	14.50	17.13	18.92	25.00	23.92	22.89	20.81	22.01	23.99
Butter, dairy.....	11.08	9.65	8.60	10.54	12.89	19.00	16.98	14.98	13.50	14.66	17.49
Cheese, factory.....	8.68	9.05	8.85	9.00	9.75	10.18	10.17	9.60	9.00	9.69	10.38
Eggs.....	12.14	10.79	10.75	13.79	12.41	16.30	15.77	16.30	18.54	13.50	15.84
Sugar, hards.....	5.74	5.29	4.73	5.03	5.06	5.64	4.89	6.12	7.39	8.49	7.40
Molasses, New Orleans.....	31.82	26.13	31.96	28.97	32.11	33.27	34.31	34.60	40.39	41.21	41.50
Rice, Louisiana.....	6.08	5.24	4.12	4.31	4.93	4.31	5.01	5.38	5.11	5.06	5.54
Coffee, Rio.....	9.74	15.02	18.59	20.52	20.76	20.52	18.55	20.87	20.81	18.37	18.99
Dried Peaches.....	8.05	7.13	6.25	7.40	5.65	4.88	2.74	8.16	3.11	2.82	6.97
Dried Apples.....	4.31	2.64	2.25	4.52	5.55	5.04	3.40	9.07	3.72	3.01	6.03
Green Apples.....	2.76	1.97	1.80	2.02	3.30	2.90	2.14	3.49	2.82	1.54	2.20
Potatoes.....	1.93	1.54	1.90	1.55	2.08	2.30	1.45	2.99	1.67	1.30	2.74
Beans.....	1.21	.93	1.10	1.85	1.79	1.99	1.98	2.23	1.93	1.94	2.46
Cattle.....	3.70	3.54	3.40	3.85	3.35	3.61	3.17	3.28	2.90	2.84	3.04
Sheep.....	3.87	3.78	3.15	3.30	3.10	4.20	4.79	4.83	4.84	4.46	4.58
Hogs.....	8.84	8.32	8.50	4.35	5.10	6.90	3.90	3.64	3.74	5.15	5.18
Leather.....	25.96	25.92	23.96	26.60	22.44	23.84	26.87	27.70	27.82	29.49	29.25
Hides.....	8.71	7.73	5.52	6.02	3.66	4.00	4.66	5.75	6.77	7.00	7.98
Wool.....	24.95	24.45	17.81	18.58	19.60	25.70	25.87	29.67	30.15	29.55	27.37
Cotton.....	5.69	6.96	7.57	7.04	6.93	8.38	7.50	9.25	11.04	10.24	9.83
Leaf Tobacco.....	9.10	8.05	6.95	9.40	10.05	11.85	7.75	9.00	9.25	10.25	15.00
Pig Iron.....	11.50	11.50	12.50	12.85	11.60	14.00	15.62	16.35	17.65	16.97	18.98
Coal, delivered.....	9.05	8.10	8.21	9.00	9.11	11.04	10.33	10.24	9.69	9.95	13.96
Lead.....	3.77	3.55	2.81	3.12	3.07	3.60	4.14	4.44	3.94	3.82	4.42
Nails.....	1.48	1.69	2.38	1.63	1.20	1.36	1.66	1.84	2.26	1.87	1.97
Illuminating Oil.....	6.86	6.75	7.80	7.87	6.25	6.25	6.32	7.82	8.38	8.19	8.16
Lard Oil.....	45	38	46	55	64	86	54	52	57	58	61
Linseed Oil.....	39	32	35	51	50	45	37	53	59	57	50
Candles.....	6.72	6.57	7.44	8.04	8.31	8.97	9.06	8.06	8.50	9.14	8.42
Turpentine.....	34.61	29.32	29.35	32.30	33.21	34.35	35.74	41.06	44.94	45.46	39.29
Hay.....	8.67	9.80	12.20	12.70	10.95	12.55	11.25	10.58	10.56	12.74	14.79

NOTE.—Flour, Pork, Green Apples and Potatoes, dollars per barrel; Wheat, Corn, Oats, Beans and Coal, cents per bushel; Hams, Sides, Lard, Butter, Cheese, Sugar, Rice, Coffee, Dried Peaches, Dried Apples, Leather, Hides, Wool, Cotton, Tobacco, Lead and Candles, cents per pound; Cattle, Sheep and Hogs, dollars per 100 pounds; Molasses, Oils and Turpentine, cents per gallon; Pig Iron and Hay, dollars per ton; Eggs, cents per dozen; Nails, dollars per keg. Prices of Leaf Tobacco and some other articles represent the general average.

GRAIN.

The volume of local business in Grain at Cincinnati in 1898 was reduced in comparison with the preceding year, due to various causes. This market draws its supplies of Grain chiefly from Ohio and States westward—notably Indiana and Illinois. Considerable Wheat comes here from Kentucky and Tennessee, at times, and considerable is also shipped from this market to milling concerns in those States. Corn supplies are generally obtained from a wider range of territory, Indiana and Illinois contributing liberally, as also Iowa, Nebraska, Kansas, etc. Oats are mostly received from Indiana, Illinois and Iowa.

The distribution of Grain at Cincinnati is largely southward and southeastward, notably so for Corn and Oats. The sharp competition of Western markets for the Southern trade, and existing transportation conditions, have more or less

curtailed the ability of our dealers to meet this competition, and much of the business conducted has been on so small a margin of profit as to be discouraging.

Cincinnati has not been favored with facilities for business in exportation of Grain to foreign markets, although it has been believed that properly directed efforts might develop favorable results in such operations.

The total receipts of Grain at Cincinnati in 1898 were somewhat reduced in comparison with the high record of the preceding year. The records of the Chamber of Commerce indicate an aggregate of 25,400,000 bushels of the several kinds of Grain as received the past year, compared with 27,200,000 bushels in 1897, and an annual average of 20,400,000 bushels for five years ending with 1897.

The following compilation shows the aggregate annual receipts of Grain at Cincinnati for six years, representing bushels:

KINDS.	1898	1897	1896	1895	1894	1893
Wheat.....	2,601,882	2,010,842	1,483,702	2,030,682	2,399,982	2,084,546
Corn.....	15,121,379	15,901,253	13,498,423	8,892,763	10,744,781	7,077,860
Oats.....	6,217,382	7,627,932	4,681,513	5,418,652	4,479,437	5,428,247
Rye.....	1,116,549	567,483	361,689	433,458	417,117	484,979
Barley.....	872,577	1,092,828	1,275,340	1,065,862	1,310,447	1,381,220
Total.....	25,429,769	27,200,388	21,300,617	17,841,417	19,351,764	16,456,852

The reported production of Wheat in territory most closely tributary to Cincinnati was considerably enlarged in 1898 in comparison with three years previously, and receipts here of this Grain were increased, notwithstanding the influence of speculative conditions in the first half of the year at Chicago, which attracted more or less quantity of Wheat, tributary to this market.

The following compilation indicates official returns of Wheat production in the four states mentioned, for 1898, and five years previously, representing bushels, the exhibit showing the variations in these particulars from year to year:

STATES.	1898	1897	1896	1895	1894	1893
Ohio.....	42,103,000	30,849,000	21,800,000	32,216,000	48,445,000	38,917,000
Indiana.....	38,426,000	32,675,000	20,647,000	20,291,000	43,644,000	35,579,000
Illinois.....	19,334,000	11,578,000	28,668,000	19,061,000	33,312,000	15,507,000
Kentucky.....	14,465,000	12,283,000	6,977,000	9,501,000	11,006,000	13,584,000
Four States.....	114,328,000	87,385,000	78,092,000	81,069,000	136,407,000	100,587,000
Total crops.....	675,148,000	580,149,000	427,684,000	467,103,000	460,267,000	396,132,000

In 1892 the total for the four states was 118,000,000; in 1891, 146,000,000 bushels.

In referring to prices of Wheat, it may be observed that the calendar year does not conform to the crop year for this Grain, which is usually recognized as beginning with July. For the year 1898 the average price of No. 2 Red Winter Wheat at Cincinnati was reduced 3 cents per bushel in comparison with the advanced position in 1897, when the record was higher than in any previous year since 1891. The entire range for the year was 64@145 cents—the extreme figure being reached in May, under temporary speculative conditions centering at Chicago,

but influencing values elsewhere. The highest range other than in May was \$1.10, in April; the lowest price was in September. The average price for the year, based on weekly quotations, was 86 cents. For 1897 the range was 70@100 cents, average 89 cents. For five years ending with 1897 the annual average price was 69 cents.

The local and near-by manufacture of flour is not of especially large proportions, so that the consumption of Wheat here is not a matter of much significance. During the year 1898 the absorption of Wheat by such milling concerns was about 1,600,000 bushels, a part of which represents supplies not appearing in receipts at Cincinnati.

The total receipts of Corn the past year at Cincinnati were moderately reduced, compared with the high record of the preceding year. The aggregate was 15,121,000 bushels, against 15,901,000 bushels in 1897. Much of such receipts represents through shipments. A liberal local business is done in this grain, for distillers, starch manufacturers, feed dealers, etc., and for shipment to Southern markets. The price of No. 2 Mixed Corn (shelled) ranged at 28½@39 cents per bushel, averaging 33.41 cents, compared with 26½ cents in 1897. The lowest price was in January, and the highest in May; subsequent to the latter month there was some reaction, but the market was well sustained until the latter part of August, when it receded to 30 cents. In the latter part of October the market improved quite decidedly, continuing in the higher position to the close of the year. Prices of Mixed Ear Corn ranged at 27½@41 cents for the year, averaging 34 cents, compared with 26 cents in 1897, and an annual average of 37 cents for five years ending with 1897.

The official estimates of the production of Corn in the four States of Ohio, Indiana, Illinois and Kentucky, and totals for the entire country, are shown in the following compilation, for six years, representing bushels:

STATES.	1898	1897	1896	1895	1894	1893
Ohio	102,828,000	92,166,000	123,692,000	92,783,000	71,974,000	64,487,000
Indiana	129,154,000	109,825,000	133,468,000	121,436,000	96,888,000	85,369,000
Illinois	199,960,000	232,928,000	284,573,000	255,137,000	169,122,000	160,551,000
Kentucky.....	85,177,000	64,486,000	80,932,000	93,939,000	67,892,000	68,008,000
Four States	517,119,000	499,405,000	622,665,000	563,295,000	405,876,000	378,415,000
Total crops.....	1,924,184,000	1,902,968,000	2,288,875,000	2,151,138,000	1,212,770,000	1,619,496,000

The aggregate receipts of Oats at Cincinnati in 1898 were considerably short of the high record of the preceding year, the quantity reaching 6,217,000 bushels, against 7,628,000 bushels in 1897. Prices of No. 2 Mixed Oats had a range of 21½@34½ cents per bushel for the year, the average being 27 cents, the latter comparing with 21 cents in 1897, and an annual average of 27 cents for five years ending with 1897. The lowest price was in August, and the highest in May.

According to official estimates the production of Oats in the States of Ohio, Indiana, Illinois and Kentucky was 157,000,000 bushels, as compared with 164,000,000 in 1897, 162,000,000 in 1896, 144,000,000 in 1895, and 184,000,000 in 1894. The total crops of the country were 731,000,000 bushels in 1898, 699,000,000

in 1897, 707,000,000 in 1896, 824,000,000 in 1895, and 662,000,000 in 1894. For five years prior to 1898 the annual average production was 706,000,000 bushels.

Receipts of Rye at Cincinnati in 1898 were 372,000 bushels, compared with 567,000 bushels in 1897, and an annual average of 453,000 bushels for five years prior to 1898. Prices of No. 2 Rye ranged at 40@80 cents for the year, averaging 51 cents, compared with a range of 33@52 cents, and an average of 41 cents, in 1897. The Rye crop in 1898 was 25,657,000 bushels, compared with 27,363,000 in 1897, and an annual average of 26,400,000 bushels for five years prior to 1898.

Receipts of Barley at Cincinnati in 1898 were 1,116,000 bushels, compared with 1,093,000 bushels in 1897, and an annual average of 1,225,000 bushels for five years prior to 1898. The market for Barley shared in the improved position of prices of Grain. Extra No. 3 Spring Barley averaged 42 cents per bushel, compared with 35 cents for 1897. Extra No. 3 Fall Barley averaged 44 cents, compared with 36 cents for 1897.

Spring Barley Malt sold at 52@63 cents per bushel, averaging 57½ cents for the year, compared with 48 cents for 1897. The Barley crop of 1898 was 55,800,000 bushels, compared with 66,700,000 in 1897, and an annual average of 71,000,000 for five years prior to 1898.

Dealers in this market transact a large amount of business in Grain, Hay and Feed for direct movement from originating points to destination markets, without appearing in the statistics of our Chamber of Commerce.

On page 125 of this report will be found a tabulation of monthly and yearly average prices of Wheat at Cincinnati, from 1844 to 1898, inclusive, covering a period of fifty-five years. During the years of discount on the currency, 1862 to 1878, the values are computed on the gold basis. For the first thirteen years of this period the general average price was 88 cents; for the last three years of the period the prices were much above those of the previous years, their average being \$1.35, compared with 74 cents for the previous ten years. For the next ten years, ending with 1866, there was much variability, with 79 cents as the lowest yearly average, and \$1.80 the highest—the general average being \$1.05. During the ten years ending with 1876 the yearly average was below \$1.00 in but one instance, the closing year of the period, when it was 89 cents, while the general average for the period was \$1.24. For the ten years ending with 1886 the general average was \$1.05, the lower prices prevailing in the latter half of the period. For the ten years ending with 1896 there was a decided further decline, the general average being 78 cents. The downward tendency culminated in the year 1894, with 54 cents as the average, followed by 66 cents for 1895, 72 cents for 1896, 89 cents for 1897, and 86 cents for 1898.

The special feature of the year in the general markets concerning Wheat was the effort of Mr. JOSEPH LEITER, of Chicago, to gain such control of the situation as to corner the market. His operations began to take shape in the last half of 1897, and at times the trade was led to believe that his plan might be carried through successfully. But it resulted disastrously to him, and occasioned much of disorder in the course of the Wheat trade.

Cash prices of Wheat at Chicago in the last half of 1897 ranged at 68½@109 cents per bushel, averaging about 91 cents; for the first half of 1898 the range

was 75@185 cents, averaging about 110 cents—the low point being in June, the high point in May. For the last half of the year the range was 62@88 cents, averaging about 69 cents.

Cash prices of Corn at Chicago in 1898 ranged at 26@36 cents per bushel, averaging about 31½ cents, compared with a range of 21¼@32½ cents, and an average of 25½ cents, in 1897.

Cash prices of Oats at Chicago in 1898 ranged at 20¼@31½ cents per bushel, averaging 24½ cents, compared with a range of 15½@23½ cents, and an average of 18½ cents, in 1897.

The aggregate production of Grain in the United States in 1898, according to official estimates, was 3,423,000,000 bushels, compared with 3,241,000,000 in 1897, and an annual average of 3,108,000,000 for five years prior to 1898. The approximate accuracy of the estimates of crops other than Wheat is not readily determinable, but in regard to Wheat the distribution can be more reliably shown, and it has been quite apparent that the estimates in late years have fallen decidedly below actual production. It is believed that for the eight crops prior to 1898 the production was in fact more than 325,000,000 bushels in excess of the official calculations. The present Statistician of the Department of Agriculture is manifestly endeavoring to correct as far as possible the errors in such work, and the returns presented for 1898 are generally accepted as likely to prove fairly accurate.

The Wheat crop of 1898 as officially estimated was 675,000,000 bushels, compared with 530,000,000 in 1897, 427,000,000 in 1896, and an annual average of 456,000,000 for five years prior to 1898. In 1898 the Winter Wheat represented 380,000,000 bushels, or 56 per cent, and of Spring Wheat 295,000,000 bushels, or 44 per cent.

The rate of domestic consumption of Wheat has usually been recognized as about 4½ bushels per capita of population, for all purposes other than for seeding. This rate, however, has unquestionably been modified in recent years, notably so in 1896, 1897, and the early part of 1898, under the influence of decidedly cheaper prices for corn, and the consequent uses of the products of this grain for food purposes. At the usual rate the consumption for the current year would be about 340,000,000 bushels for food, etc., and for seeding probably about 65,000,000 bushels.

Lowest, highest and yearly average prices of cash No. 2 Wheat, No. 2 Corn and No. 2 Oats, at Chicago, for years indicated:

YEARS.	WHEAT.			CORN.			OATS.		
	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
1887.....	66½	94¾	75½	33	51½	39½	23½	31½	26
1888.....	71½	200	88½	33½	60	46½	23½	27½	29½
1889.....	75½	108¾	86½	29½	61	33½	17½	26½	22½
1890.....	74½	108¾	89½	27½	53½	39	19½	45	31
1891.....	85	116	95½	39½	75½	56½	26½	57½	39
1892.....	69½	91¾	78½	36½	100	44½	27	35½	30½
1893.....	54½	88	67½	34½	44½	39½	22	32	28½
1894.....	50	65½	57½	34	59½	43½	27	50	30½
1895.....	48½	85½	62½	25	55½	40½	16½	31½	24½
1896.....	53½	94½	66½	19½	30½	25½	14½	20½	18½
1897.....	64½	109	85½	21½	32½	25½	15½	23½	18½
1898.....	62	185	89½	26	38	31½	20½	31½	24½

The following compilation, from the statistical reports of the United States Department of Agriculture, shows the yield per acre of Winter Wheat, Spring Wheat, and total Wheat, Corn and Oats, in bushels, and estimated average value of these crops per acre, for years stated:

YEARS.	WHEAT.		TOTAL WHEAT.		CORN.		OATS.	
	Winter.	Spring.	Yield.	Value.	Yield.	Value.	Yield.	Value.
1889.....	13.1	12.4	12.9	\$8 98	27.0	\$7 68	27.4	\$6 26
1890.....	10.9	11.4	11.1	9 28	20.7	10 48	19.8	8 40
1891.....	14.8	16.4	15.3	12 86	27.0	10 97	28.9	9 08
1892.....	13.8	12.5	13.4	8 85	28.1	9 09	24.4	7 73
1893.....	12.0	10.3	11.4	6 16	22.5	8 21	23.4	6 90
1894.....	14.0	11.6	13.2	6 48	19.8	8 90	24 5	7 10
1895.....	11.5	18.1	13.7	6 99	26.2	6 91	29.6	5 86
1896.....	11.7	13.6	12.4	8 97	28.2	6 06	25.7	4 80
1897.....	13.7	12.9	13.4	10 86	23.7	6 25	27.1	5 75
1898.....	14.7	16.1	15.8	8 91	24.7	7 10	28.3	7 23

The yearly exportation of Wheat (including flour) and Corn, for years ending June 30, is shown in the following exhibit, representing bushels:

YEARS.	WHEAT.	CORN.	YEARS.	WHEAT.	CORN.
1882-83.....	148,785,000	40,587,000	1890-91.....	106,181,000	30,764,000
1883-84.....	111,534,000	27,649,000	1891-92.....	225,666,000	75,452,000
1884-85.....	132,570,000	51,834,000	1892-93.....	191,912,000	46,035,000
1885-86.....	94,566,000	63,655,000	1893-94.....	164,283,000	67,325,000
1886-87.....	153,806,000	40,307,000	1894-95.....	144,812,000	27,691,000
1887-88.....	119,625,000	24,278,000	1895-96.....	126,443,000	99,998,000
1888-89.....	88,601,000	69,593,000	1896-97.....	145,125,000	176,916,000
1889-90.....	109,430,000	101,974,000	1897-98.....	217,306,000	208,745,000

The world's production of Wheat in 1898 exceeded any previous record. The accompanying tabular exhibit is mainly based on official estimates. It affords approximate comparisons for general divisions of the world's crops, for the years indicated below:

GENERAL DIVISIONS, ETC.	1898	1897	1896	1895	1894	1893
United States.....	675,000,000	575,000,000	450,000,000	500,000,000	515,000,000	475,000,000
Canada.....	68,000,000	56,000,000	41,000,000	57,000,000	44,000,000	43,000,000
Mexico.....	15,000,000	13,000,000	13,000,000	10,000,000	9,000,000	15,000,000
Total, North America.....	758,000,000	644,000,000	504,000,000	567,000,000	568,000,000	533,000,000
South America.....	72,000,000	46,000,000	64,000,000	84,000,000	101,000,000	81,000,000
Europe.....	1,549,000,000	1,152,000,000	1,501,000,000	1,453,000,000	1,518,000,000	1,514,000,000
Asia.....	421,000,000	365,000,000	379,000,000	410,000,000	430,000,000	482,000,000
Africa.....	45,000,000	36,000,000	37,000,000	48,000,000	55,000,000	38,000,000
Australia.....	36,000,000	28,000,000	26,000,000	32,000,000	43,000,000	42,000,000
Aggregates, bushels.....	2,880,000,000	2,271,000,000	2,511,000,000	2,594,000,000	2,715,000,000	2,640,000,000

For five years, 1892 to 1896, inclusive, the world's annual average production of Wheat was about 2,600,000,000 bushels. In 1897 it was reduced to 2,271,000,000, and in 1898 reached 2,880,000,000. For the seven years ending with 1898 the annual average was 2,590,000,000.

The world's total cereal production in recent years is approximately shown in the following compilation, representing bushels:

KINDS.	1898	1897	1896	1895	1894	1893
Wheat	2,880,000,000	2,271,000,000	2,511,000,000	2,594,000,000	2,715,000,000	2,640,000,000
Corn	2,375,000,000	2,275,000,000	2,750,000,000	2,625,000,000	1,475,000,000	2,025,000,000
Oats	2,475,000,000	2,350,000,000	2,525,000,000	2,690,000,000	2,575,000,000	2,250,000,000
Rye	1,875,000,000	1,150,000,000	1,350,000,000	1,350,000,000	1,450,000,000	1,440,000,000
Barley	915,000,000	700,000,000	900,000,000	910,000,000	925,000,000	920,000,000
Aggregates, bushels.....	10,020,000,000	8,746,000,000	10,036,000,000	10,169,000,000	9,140,000,000	9,275,000,000

For the period of six years, shown in this exhibit, the yearly average production of the cereals mentioned was 9,565,000,000 bushels. The United States is foremost in production of Wheat, Corn and Oats, and Russia in production of Rye and Barley.

Statistical details relating to Grain appear on pages 113 to 132, inclusive. Exhibits of Grain production in the United States on pages 126 to 129, inclusive, and page 132.

FLOUR.

The receipts of Flour at Cincinnati in 1898 were decidedly in excess of any previous record, reaching an aggregate of 2,318,000 barrels, compared with 1,985,000 barrels in 1897, and an annual average of 1,843,000 barrels for five years prior to 1898. Shipments for the year were larger than previously, showing a total of 1,918,000 barrels, compared with 1,592,000 barrels in 1897, and an annual average of 1,441,000 barrels for five years prior to 1898. The reported movement includes considerable of through shipments.

The local manufacture of Flour, embracing some mills in the vicinity outside of the city, was enlarged in 1898, the returns showing a total of 361,500 barrels, compared with 278,700 barrels in 1897. In 1896, with the largest mill closed, the total was 146,000; in 1895, 270,000 barrels; in 1894, 336,000 barrels.

Stocks of Flour held by dealers at Cincinnati on January 1, 1899, were 40,752 barrels, compared with 44,034 in 1898, 36,691 in 1897, 45,255 in 1896, and 50,483 in 1895. Supplies held by consuming concerns not included—ordinarily amounting to 5,000 to 7,000 barrels, and occasionally more.

The large local baking establishments obtain a liberal proportion of supplies of Flour direct from milling concerns in the west and northwest, which correspondingly restricts the trade of receivers in this market, and operates more or less unfavorably upon prices here.

The prevailing tendency of the market from the first of January to the close of April was moderately toward higher prices, with an average gain of about 75 cents per barrel during the period. The sharp advance in the wheat markets in May, under influence of the speculative deal at Chicago, carried prices of Flour up temporarily very decidedly, but the reaction resulted in a position of values at the close of June about the same as the first of January. From this there was an important decline in the later months, carrying the average of

prices at the close of the year to a point about \$1.05 per barrel lower than at the beginning of the year. The general average for the year varied but little in comparison with the preceding year.

Winter Extra Flour at the opening of the year ranged at \$3.00@3.30 per barrel, reaching \$3.65@3.90 at the close of April, and held at \$4.35@4.65 for a brief time in May, receding to \$3.00@3.30 at the end of June, and subsequently tending downward, closing in December at \$2.00@3.30.

Winter Family Flour sold at \$3.35@3.80 per barrel in January, reaching \$4.20@4.50 at the close of April, touching \$5.00@5.25 in May, receding to \$3.50@3.75 at the end of June, the subsequent declining tendency carrying the range to \$2.40@2.60 at the end of December.

Spring Family Flour ranged at \$3.95@4.20 per barrel in January, advancing to \$4.75@5.00 at the close of April, held at \$5.70@5.90 briefly in May, receding to \$4.00@4.30 at the end of June, afterward declining more or less in nearly every month, and closing in December at \$2.85@3.00.

The year's average prices were as follows: Winter Extra \$3.00, against \$3.04 in 1897; Winter Family \$3.43, against \$3.55 in 1897; Spring Family \$3.90, against \$3.72 in 1897.

The baking interest here, for commercial distribution, is of large proportions, and the local establishments enjoy a high reputation for superior quality of products. The value of the output in 1898 was increased about 8 per cent in comparison with the preceding year, when there was a like gain over 1896.

For the fiscal year ending June 30, 1898, the exports of Flour from the United States were 15,350,000 barrels, compared with 14,570,000 in 1897, and an annual average of 13,805,000 for ten years prior to 1898. The largest foreign movement was reported in 1894, reaching 16,860,000 barrels. For the calendar year 1898 the exports were 16,570,000 barrels, compared with 13,596,000 in 1897, and 15,856,000 in 1896.

The average export valuation of Flour for the year ending June 30, 1898, was \$4.51 per barrel, compared with \$3.84 in the preceding year, and an annual average of \$4.33 for a period of ten years prior to 1898. Of the exports for the year 56 per cent were destined for the United Kingdom, 11 per cent to other European countries, and 33 per cent to all other countries.

Statistical details appear on pages 121 to 124, inclusive, and 170.

MILL FEED PRODUCTS.

The receipts of Mill Feed Products at Cincinnati in 1898 were reduced in comparison with 1897, and represent the smallest yearly arrivals in twenty years. The total was 15,500 tons, compared with 18,200 tons in 1897, and an annual average of 20,200 tons for five years prior to 1898.

Prices of Mill Feed Products averaged decidedly higher than in the preceding year, as also 1896, but were lower than previously for several years. Bran sold \$11.00 per ton early in January, advancing to \$13.00@13.50 in February, continuing without much change during March and April. Subsequently, with some exceptions, the tendency was downward, attended with a temporary reac-

tion in July, when \$12.25@12.50 was obtained, followed by a decline until \$9.00@9.25 was reached in October, improving later, and closing in December at \$11.50@11.75. The average for the year was \$11.92 per ton, compared with \$9.55 in 1897, and an annual average of \$11.65 for five years prior to 1898.

Fine Middlings sold at \$11.00@14.50 per ton, averaging \$12.52, compared with \$10.55 in 1897, and an annual average of \$12.70 for five years prior to 1898. Coarse Middlings averaged \$13.23 per ton for the year, compared with \$10.10 in 1897, and an annual average of \$11.80 for five years prior to 1898.

Statistical details appear on pages 123, 124, 152 and 154.

HAY.

The receipts of Hay at Cincinnati in 1898 were the largest on record, amounting to 135,000 tons, compared with 110,500 tons in 1897, and an annual average of 97,000 tons for five years prior to 1898. The shipments were 93,200 tons, compared with 58,800 in 1897.

In the States of Ohio, Indiana and Illinois, the principal sources of supply of Hay for this market, the production in 1898 as officially estimated was 8,016,000 tons, compared with 7,622,000 tons in 1897, 7,183,000 in 1896, 3,321,000 tons in 1895, and 8,232,000 tons in 1894, showing that the past year was among the larger of yields of this product in the territory immediately tributary to this market. These three states represent about one-eighth of the entire production of the country, which is given as 66,376,000 tons for 1898, compared with 60,665,000 in 1897, and an annual average of 57,000,000 tons for five years prior to 1898.

The quality of Hay received in this market in 1898 from the new crop was generally good, averaging better than ordinarily, and decidedly in contrast with conditions in the preceding crop year. A large proportion of the offerings were graded No. 1.

Prices of Hay were low nearly all the year, the average falling considerably below 1897, which was lower than for any previous year for a long period. No. 1 Timothy sold at \$8.50@9.00 per ton, in car load lots on arrival, in January; at \$8.00@8.75 in February and early part of March, advancing to \$9.50@10.00 late in April, and as high as \$10.75@11.00 in May, from which time there was a decline to \$8.25@8.75 in June, \$7.50@7.75 late in August, with a reaction to \$8.00@8.25 later. The average for the year was \$8.67 per ton, compared with \$9.80 in 1897, and an annual average of \$11.60 for five years prior to 1898.

Dealers in Cincinnati continue to maintain an extensive business in the distribution of Hay over a wide extent of territory, southward and eastward, a large amount of product going to points of destination from the shipping districts without appearing in the receipts of this market. One of the elements occasioning a lowering of prices in recent years is probably to be found in the lessened number of horses in the large towns and cities, from displacement in movement of street cars by other motive power, and the more extensive use of bicycles, which has had the effect to reduce the number of horses used by families.

Statistical data appear on pages 152, 154 and 159.

PROVISIONS.

An increased volume of business in Hog Product at Cincinnati is shown for 1898, including the slaughtering of Hogs and the movement of product. For the eight months of the summer season, March 1 to November 1, the number of Hogs slaughtered was 398,800, the highest record for such period, and 40,000 in excess of the corresponding time in 1897. For the winter season of 1898-99, November 1 to March 1, the number was 297,200, compared with 276,400 for corresponding time in the preceding year. For twelve months ending March 1, 1899, the total was 696,000 Hogs, the largest yearly slaughtering for twenty years. The total for the preceding year was 635,000.

The earlier records of Pork Packing operations at Cincinnati, covering forty years prior to 1872, in which year summer killing was inaugurated, show that for the first ten years of this period the average annual number was 136,000; for the second ten years, an average of 310,000; for the third ten years, an average of 395,000; for the fourth ten years, an average of 415,000. The highest record in the first term was 220,000; in the second, 475,000; in the third, 475,000; in the fourth, 630,000. The highest annual record since summer killing was established was in 1878-79, twenty years ago, when 778,000 was reached, or 82,000 in excess of the past year, ending March 1.

The course of prices of Hogs at Cincinnati appears in the following monthly averages for good packing grades:

MONTHS.	1898	1897	1896	1895	MONTHS.	1898	1897	1896	1895
January.....	\$3 65	\$3 40	\$3 95	\$4 25	July.....	\$8 85	\$3 60	\$3 40	\$5 00
February.....	3 95	3 50	4 15	4 20	August.....	8 90	4 10	3 30	4 65
March.....	3 90	3 70	4 00	4 50	September....	8 85	4 30	3 30	4 25
April.....	3 80	4 00	3 60	4 95	October.....	3 65	3 95	3 30	3 95
May.....	4 15	3 75	3 30	4 55	November.....	3 40	3 50	3 30	3 55
June.....	3 55	3 50	3 30	4 50	December.....	3 35	3 35	3 25	3 45

General average price for the year 1898 for good packing grades at Cincinnati about \$3.75 per 100 pounds, compared with \$3.70 in 1897, \$3.50 in 1896, and \$4.30 in 1895.

The aggregate receipts of Meats at Cincinnati during 1898 were 129,800,000 pounds, compared with 101,900,000 in 1897, and an annual average of 83,000,000 for five years prior to 1898. The aggregate shipments were 141,700,000 pounds, compared with 116,500,000 in 1897, and an annual average of 96,000,000 pounds for five years prior to 1898. The receipts include green meats obtained from other points for curing here, and also through shipments of product.

For the Provision trade year, ending October 31, 1898, average prices at Cincinnati were as follows: Dry Salted Short Rib Sides, \$5.30 per 100 pounds; Dry Salted Shoulders, \$4.63 per 100 pounds; Sugar-cured Hams, \$8.81 per 100 pounds; Prime Steam Lard, in tierces, \$4.84 per 100 pounds. For the preceding year the average prices were as follows: Dry Salted Short Rib Sides, \$4.66; Dry Salted Shoulders, \$4.51; Sugar-cured Hams, \$10.07; Prime Steam Lard, \$3.99. The average increase in prices in 1898 was 5 $\frac{7}{8}$ per cent.

For Dry Salted Short Rib Sides the range of prices for the year ending October 31 was \$4.37½@6.50 per 100 pounds, with only a brief period above \$5.62½. For the four winter months the range was \$4.37½@5.37½; for March to June inclusive, \$5.25@6.50, with \$5.25@5.62½ representing the prevailing range; for July to October inclusive, \$5.37½@5.62½. The year's range for Dry Salted Shoulders was \$4.00@5.37½; for Lard, \$4.10@6.50.

The following compilation shows the average prices of the various articles of Hog Product in this market for three years, ending October 31; also, the average prices for ten years ending with 1898, and the lowest yearly and highest yearly averages within the period of ten years:

ARTICLES.	12 Months to Oct. 31, 1898.	12 Months to Oct. 31, 1897.	12 Months to Oct. 31, 1896.	10 Years, ending 1898.	Lowest Average, 10 Years.	Highest Average, 10 Years.
Meas Pork.....	\$9 63	\$8 26	\$8 20	\$12 15	\$8 20	\$18 50
D. S. Short Rib Sides.....	5 30	4 66	4 28	6 37	4 28	9 38
D. S. Shoulders.....	4 63	4 51	4 22	5 52	4 22	8 89
Bacon, S. R Sides.....	5 79	5 08	4 79	7 03	4 79	10 34
Bacon, S. C. Sides.....	5 96	5 27	5 00	7 37	5 00	11 19
Sugar-cured Hams.....	8 81	10 07	9 73	10 69	8 81	13 89
Lard, winter prime steam.....	4 84	3 99	4 47	6 70	3 99	10 00

The lowest annual average prices within the period of ten years were in 1898 for Hams, in 1897 for Lard, and in 1896 for other articles. The highest averages were for the year 1893.

There is a large export business in Lard at Cincinnati, to the United Kingdom and the Continent, and also a considerable volume of Meats shipped to foreign markets.

Cincinnati is noted for the excellence of the quality of the Meats cured here. This is notably so in reference to Hams, in which there is a very large trade, and it is believed that the sales of Hams by one concern in this city are not equaled in quantity by any other establishment in the country.

It is appropriate in this connection to refer to some general features of the Pork Packing industry of the West and elsewhere in the United States, as yearly presented exclusively by the *Cincinnati Price Current*. The large corn crops of 1895 and 1896 stimulated interest in the production of Hogs, which has been profitable to the growers and feeders of the animals. The marketable supply has been greatly enlarged, and for the past year has decidedly exceeded any previous record.

For the year ending March 1, 1897, the total Western packing was 16,929,000 Hogs, which number had previously been equaled in but one instance, 1890-91, when the total was 17,713,000. For the year ending March 1, 1898, the record was advanced to 20,201,000 Hogs. For the year ending March 1, 1899, a large further increase is shown, the total reaching 23,651,000, of which 13,931,000 represented operations during the eight summer months—to November 1, and 9,720,000 the four winter months—to March 1.

A feature of the Pork Packing industry is that while the Western slaughtering has more than doubled in comparison with twenty years ago the number of establishments engaged in killing Hogs has largely decreased.

Large numbers of Hogs are slaughtered by regular packing establishments at Buffalo, Boston, New Haven, Worcester, Providence, and some other Eastern points, which for the year ending March 1, 1899, represented a total of 3,164,000, compared with an average of 2,853,000 for five years previously. There were received at New York, Philadelphia and Baltimore for the year 2,978,000, compared with an average of 2,735,000 for five years previously. The total of these Eastern slaughtering for the year was 6,142,000, compared with an average of 5,589,000 for five years previously. Hogs slaughtered in Eastern markets are mostly obtained in the West. The aggregate Western and Eastern slaughtering for the year reached 29,791,000 Hogs, compared with an average of 21,538,000 for five years previously. These figures illustrate the expansion of the supply the past two years.

Comparisons of the annual commercial supplies of Hogs are shown in the following compilation by the *Cincinnati Price Current*, exhibiting the number of Hogs packed in the West and the East, with receipts at New York, Philadelphia and Baltimore, for years ending March 1:

LOCALITIES.	1898-99	1897-98	1896-97	1895-96	1894-95	1893-94	1892-93
Packed in the West.....	23,651,000	20,201,000	16,929,000	15,010,000	16,003,000	11,605,000	12,390,000
Packed at Boston.....	1,737,000	1,673,000	1,494,000	1,290,000	1,748,000	1,578,000	1,784,000
Other New England packing..	794,000	775,000	625,000	677,000	696,000	585,000	649,000
Packed at Buffalo.....	447,000	457,000	509,000	463,000	475,000	402,000	455,000
Other Eastern packing.....	185,000	167,000	163,000	173,000	178,000	136,000	128,000
Receipts—New York, Phila- delphia and Baltimore....	2,978,000	2,861,000	2,950,000	2,867,000	2,517,000	2,483,000	2,790,000
Totals.....	29,791,000	26,184,000	22,670,000	20,480,000	21,619,000	16,789,000	18,196,000

The records of weights of Hogs packed in the West disclose a tendency to a lighter average since all-the-year operations have become important in extent. For the winter season 1877-78 the average was 282 pounds; for ten years ending with 1887-88 the average was 260 pounds; for ten years ending with 1897-98 the average was 243 pounds—the lowest average being 228 pounds, in 1892-93; for the winter 1896-97 it was 245 pounds, reflecting in some degree the influence of cheap corn and more extended feeding than ordinarily; for 1897-98 the average was 235 pounds, and for 1898-99 the record is 232 pounds.

The average cost of Hogs for the Western packing for the winter 1898-99 was \$3.52 per 100 pounds, compared with \$3.53 in the preceding year, and \$3.30 in 1896-97, which was the lowest average since 1852-53 with but two exceptions, \$2.42 for 1861-62, and \$2.85 for 1878-79. For ten years prior to the past season the cost for winter months averaged \$4.27.

Western packers paid out \$123,954,000 for Hogs during the summer season, and \$79,742,000 during the winter—making a total of \$203,696,000 for the year ending March 1. The following compilation shows the comparison of such totals for years indicated:

1898-99.....\$208,606,000	1894-95.....\$172,679,000	1890-91.....\$158,446,000
1897-98.....174,382,000	1893-94.....166,090,000	1889-90.....134,169,000
1896-97.....185,456,000	1892-93.....155,766,000	1888-89.....136,700,000
1895-96.....142,268,000	1891-92.....141,698,000	1887-88.....126,150,000

The Eastern packing and slaughtering of Hogs, embraced within the investigations of the *Cincinnati Price Current*, for the year ending March 1, 1899, represent a total of 6,142,000, for which there was an outlay of about \$50,000,000. This amount, with what has been noted for Western slaughtering, makes a total of \$253,700,000 paid out during the year for Hogs which were killed for commercial purposes within the scope of the usual records.

The investigations of the *Cincinnati Price Current* disclosed large stocks of Provisions held by the trade on March 1, 1899, although not equal to some former years. Western stocks of Lard were 252,000 tierces, compared with 242,000 in 1898, 356,000 in 1897, and 176,000 in 1896. The total of Meats, including Barreled Pork, was 612,000,000 pounds, compared with 509,000,000 in 1898, and an annual average of 422,000,000 pounds on March 1 for ten years prior to 1899.

Calculations in regard to the apparent distribution of Meats from commercial channels, based on records of Western and Eastern manufacture and of exports, furnish the following comparisons for summer and winter seasons of domestic consumption, and annual totals of exports and of aggregate distribution, in pounds, for years ending March 1:

KINDS.	1898-99	1897-98	1896-97	1895-96	1894-95
Domestic—March 1 to Nov. 1.....	1,768,000,000	1,578,000,000	1,468,000,000	1,327,000,000	1,222,000,000
Domestic—Nov. 1 to March 1.....	816,000,000	780,000,000	652,000,000	628,000,000	608,000,000
Domestic—12 months.....	2,584,000,000	2,308,000,000	2,120,000,000	1,950,000,000	1,826,000,000
Exports—12 months.....	992,000,000	848,000,000	670,000,000	634,000,000	610,000,000
Aggregates—12 months.....	3,576,000,000	3,171,000,000	2,790,000,000	2,584,000,000	2,436,000,000

Corresponding deductions in regard to Lard furnish the following comparisons, which represent the apparent total domestic absorption of this article from commercial sources, and exports, for years ending March 1, as indicated, representing tierces of 330 pounds each:

KINDS.	1898-99	1897-98	1896-97	1895-96	1894-95	1893-94
Domestic.....	673,000	768,000	658,000	390,000	496,000	495,000
Exports.....	2,230,000	1,990,000	1,600,000	1,508,000	1,470,000	1,130,000
Totals.....	2,903,000	2,758,000	2,258,000	1,893,000	1,966,000	1,625,000

While exact data as to domestic consumption of Hog Product in the United States can not be presented, close calculations can be made, based on statistics indicating supply and exportation of product. Such information points to an average per capita rate of consumption reaching 55 to 56 pounds of Meats, in recent years, and about 8 pounds of Lard. This rate of consumption of swine flesh is not approached by any other country, and it is evident that no animal food product in general use can be shown to be more free from unwholesomeness.

In this connection it may be noted that systematic collection of information relating to the Pork Packing industry was inaugurated in this city, by the *Cincinnati Price Current*, fifty years ago; while other efforts were later made in the same field, and maintained for a short time, they were ultimately abandoned,

and this city for many years has had the sole distinction of furnishing such information in a specific form. For twenty-seven years this statistical work has been performed by the present editor of the Cincinnati journal mentioned, who, since his appointment in 1891, has also been the Superintendent and Executive Secretary of the Chamber of Commerce.

Statistical details of Provision trade interests on pages 134 to 151, inclusive.

LIVE STOCK.

The total receipts of Hogs at the stock yards at Cincinnati in 1898 were moderately in excess of the highest previous record, and nearly 7 per cent larger than for the preceding year, the number reaching 1,082,000, compared with 1,009,000 in 1897, and an annual average of 930,000 for ten years prior to 1898. The receipts of Cattle were decreased, indicating a total of 169,000, compared with 184,000 in 1897, and an annual average of 200,000 for ten years prior to 1898. The receipts of Sheep were also decreased, the total being 405,000, compared with 446,000 in 1897, and an annual average of 574,000 for ten years prior to 1898. The aggregate receipts of Hogs, Cattle and Sheep at the stock yards were 1,656,000, compared with 1,639,000 in 1897, and an annual average of 1,706,000 for ten years prior to 1898.

For Hogs the range of prices at Cincinnati during 1898 was \$2.85@4.65, the highest point being reached in May. The general average price of good packing stock for the year was \$3.75 per 100 pounds, compared with \$3.70 for 1897, \$3.50 for 1896, and \$4.30 for 1895. The course of prices for the year is indicated by monthly top figures and average prices of good packing quality as follows:

MONTHS.	Top Prices.	Average.	MONTHS.	Top Prices.	Average.
January.....	\$3 95	\$3 65	July.....	\$4 07½	\$3 85
February.....	4 25	3 95	August.....	4 10	3 90
March.....	4 15	3 90	September.....	4 07½	3 85
April.....	4 05	3 80	October.....	3 95	3 65
May.....	4 65	4 15	November.....	3 80	3 40
June.....	4 40	3 85	December.....	3 65	3 35

Prices of Cattle were moderately higher than in the preceding year, with an average of \$3.70 per 100 pounds for medium quality of butcher stock, compared with \$3.54 as the average for 1897, and an annual average of \$3.55 for five years prior to 1898.

Prices of Sheep were somewhat higher than in the preceding year, showing an average of \$3.87 per 100 pounds for prime butcher stock, compared with \$3.78 in 1897, and an annual average of \$3.50 for five years prior to 1898.

The total value of Live Stock received during 1898 at the stock yards at Cincinnati was about \$15,000,000, compared with \$14,000,000 for 1897, \$14,000,000 for 1896, and \$16,000,000 for 1895.

The following, compiled from daily records of the Chamber of Commerce, shows the extreme range of prices of Live Hogs in this market, per 100 pounds, monthly, for a period of twelve years. Ordinarily the average paid for good

packing lots is 10@15 cents below the higher range, and at times the difference is 20@25 cents, per 100 pounds:

MONTHS.	1896	1897	1896	1896	1894	1893	1892	1891	1890	1889	1888	1887
January	\$3 00 3 95	\$2 75 3 60	\$3 20 4 52	\$3 50 4 70	\$4 50 5 70	\$6 10 8 10	\$3 50 4 65	\$3 00 3 85	\$3 25 4 00	\$4 00 5 25	\$3 80 5 85	\$3 70 5 30
February	3 10 4 25	2 50 3 75	3 50 4 40	3 40 4 75	4 50 5 50	6 50 8 75	3 50 5 10	3 00 4 10	3 50 4 45	4 00 5 10	4 00 5 85	4 20 5 90
March	3 15 4 15	3 00 4 10	3 25 4 30	3 65 5 25	4 00 5 35	6 00 8 25	3 40 5 05	3 25 5 15	3 50 4 42	4 00 4 95	4 00 5 80	4 50 6 15
April	3 10 4 05	3 00 4 45	3 00 3 95	4 25 5 40	4 00 5 50	5 50 7 85	3 50 4 80	3 50 5 50	3 40 4 40	4 00 5 00	4 00 5 85	4 25 6 00
May	3 25 4 65	2 90 4 05	2 75 3 65	4 00 4 95	4 00 5 40	6 50 8 00	3 50 5 00	3 50 5 25	3 25 4 30	3 65 4 90	4 00 5 90	3 80 5 50
June	3 00 4 40	2 85 3 65	2 75 3 50	4 00 4 95	4 00 5 40	5 50 7 25	4 00 5 70	3 50 4 90	3 00 4 10	3 50 4 65	4 00 5 85	3 50 5 90
July	3 00 4 07	2 90 4 10	2 40 3 70	4 35 5 40	4 50 5 90	4 75 6 25	4 90 6 00	4 00 5 70	3 00 4 15	3 25 4 75	4 00 6 85	4 00 5 70
August	3 15 4 10	3 25 4 50	2 40 3 70	3 75 5 10	4 00 6 10	4 00 6 00	4 00 6 00	3 50 5 60	3 00 4 50	3 25 4 75	5 00 6 85	4 00 5 65
September	3 00 4 07	3 25 4 50	2 35 3 50	3 50 4 50	4 50 6 50	4 75 7 00	3 85 5 75	3 25 5 50	3 00 4 90	3 25 4 75	4 50 6 75	3 75 5 65
October	3 00 3 95	3 00 4 40	2 25 3 60	3 00 4 45	4 00 5 90	5 15 6 90	4 50 5 85	3 25 5 10	2 75 4 65	3 25 4 65	4 00 6 50	3 40 4 90
November	3 00 3 80	2 75 3 75	2 50 3 70	3 00 3 85	4 00 4 90	4 60 6 35	4 60 6 00	3 00 4 15	2 75 4 25	3 00 4 10	4 35 5 65	3 40 5 55
December	2 85 3 65	2 75 3 60	2 25 3 77	3 00 3 85	3 85 4 95	4 60 5 60	5 25 6 00	3 00 4 10	2 75 3 90	3 00 3 80	4 30 5 40	3 90 5 75
Year	2 85 4 65	2 50 4 50	2 25 4 52	3 00 5 40	3 85 6 50	4 00 8 75	3 40 6 00	3 00 5 70	2 75 4 90	3 00 5 25	3 80 6 85	3 40 6 15

It is appropriate, in this connection, to refer to the fact that the Live Stock trade at Cincinnati is well equipped in every way. The market is provided with splendid stock yards, and facilities for the disposition of stock. The commission houses are alert to every feature of interest, and the market is unsurpassed as one of reliability. The killing of Cattle and Sheep is now carried on here to a considerable extent for commercial purposes. The widening of the summer killing business here, with the dressed beef and mutton industry well established, give assurance of a satisfactory and advantageous market for Live Stock, and on a broadening basis.

Elsewhere in this report is given much information in regard to Pork Packing operations in the West and elsewhere in the United States, showing the enlarged number of Hogs slaughtered for commercial purposes in late years. The slaughtering of Cattle for commercial distribution of the product is also an industry of great proportions, mostly conducted by establishments engaged in pork packing, the larger part of the beef product being manufactured by about half a dozen concerns, and chiefly at Chicago, Kansas City, St. Louis and Omaha. In recent years the killing of Sheep has been a feature of these establishments to an important extent.

Data collected and published by the *Cincinnati Price Current* show the comparative number of Cattle and Sheep killed yearly at the principal Western

centers (Chicago, Kansas City, St. Louis and Omaha), and the receipts at the seaboard cities of Boston, New York, Philadelphia and Baltimore, with totals, as shown in the following compilation:

YEARS.	WESTERN KILLINGS.		SEABOARD RECEIPTS.		AGGREGATE NUMBER.	
	CATTLE.	SHEEP.	CATTLE.	SHEEP.	CATTLE.	SHEEP.
1887.....	2,048,000	1,173,000	805,000	3,432,000	2,853,000	4,605,000
1888.....	2,362,000	1,275,000	1,043,000	3,453,000	3,405,000	4,728,000
1889.....	2,688,000	1,476,000	1,214,000	3,305,000	3,902,000	4,781,000
1890.....	3,373,000	1,622,000	1,240,000	3,274,000	4,653,000	4,896,000
1891.....	3,356,000	1,879,000	1,190,000	3,375,000	4,546,000	5,254,000
1892.....	3,911,000	2,112,000	1,192,000	3,394,000	5,103,000	5,506,000
1893.....	4,104,000	3,278,000	938,000	3,330,000	5,042,000	6,608,000
1894.....	3,959,000	3,565,000	1,079,000	4,079,000	5,038,000	7,644,000
1895.....	3,590,000	3,995,000	1,019,000	4,265,000	4,609,000	8,260,000
1896.....	3,627,000	4,299,000	1,082,000	3,611,000	4,709,000	7,910,000
1897.....	3,711,000	4,654,000	1,068,000	3,141,000	4,774,000	7,795,000
1898.....	3,800,000	4,647,000	1,040,000	2,988,000	4,840,000	7,635,000

The official estimates of number of farm animals in the United States on January 1, 1899, show a total of 38,651,000 Hogs, compared with 39,760,000 in 1898, and an annual average of 46,360,000 for ten years prior to 1899. Of Cattle, including milch cows, a total of 43,984,000, compared with 45,105,000 in 1898, and an annual average of 50,622,000 for ten years prior to 1899. Of Sheep, a total of 39,114,000, compared with 37,657,000 in 1898, and an annual average of 42,270,000 for ten years prior to 1899. The aggregate number of such animals was 121,750,000, compared with 122,522,000 in 1898, and an annual average of 139,251,000 for ten years prior to 1899.

Exports of Cattle from the United States for the calendar year 1898 were 398,000, compared with 447,000 in 1897, 395,000 in 1896, 289,000 in 1895, and 421,000 in 1894. Exports of Sheep for the year 1898 were 176,000, compared with 218,000 in 1897, 323,000 in 1896, 500,000 in 1895, and 274,000 in 1894.

Exports of Hogs in late years have been very small. Formerly a considerable number went to Canada, but the import duty there has occasioned a suspension of such movement. The total exports in 1898 were 16,900, of which 4,500 went to Canada, 3,300 to Mexico, 4,000 to West Indies and Bermuda, and 3,900 to Asia and Oceanica, etc. In 1897 the total was 16,800; in 1896, 33,800; in 1895, 11,000; in 1894, 3,000.

Data as to movement, prices, etc., of Live Stock appear on pages 139 to 145, inclusive, and page 153, showing much of comparative information. Yearly numbers of farm animals in the United States appear on page 147.

GRASS SEED.

The receipts of Grass Seed at Cincinnati in 1898 were about 10 per cent larger than in the preceding year, and in excess of any previous record. The increase in comparison with 1897 was in Timothy Seed. For 1898 the aggregate receipts were 165,600 bags, compared with 151,000 bags in 1897, and an annual average of 137,000 bags for five years prior to 1898.

The receipts of Clover and Timothy and for all other Grass Seed are shown separately for the past six years in the following tabulation, representing number of bags:

KINDS.	1896	1897	1898	1899	1900	1901
Clover Seed.....	36,700	43,000	87,700	31,100	35,900	24,200
Timothy Seed.....	75,500	52,100	60,500	54,400	52,700	41,600
Other Grass Seed.....	53,400	55,900	48,900	41,000	54,500	52,400
Total, bags.....	165,600	151,000	147,100	126,500	143,100	118,200

The season of 1898 was not generally favorable to production of Clover Seed in the Western States where this crop usually is produced for commercial supplies, and the yield was much below years of good results. There was, however, a large quantity of the crop of 1897 not only in the hands of dealers in the prominent markets, but widely distributed among producers and interior dealers, who were induced to hold it under the low prices which had prevailed. As a result the markets had ample supplies, and speculative calculations early in the season based largely on indications in regard to the new crop were overtaken with disappointment.

The trade early in 1898 had a fair demand for Clover Seed for spring sowing, but not up to the usual amount, the requirements being met to more or less extent by home supplies. Prices declined to the lowest point in the history of the market. Some speculative purchases were made as the spring advanced, which gave temporary relief to the market to some extent. Early in the summer statements were promulgated to the effect that the stand of the Clover plant was poor, and the outlook was for the smallest yield of seed for years, as also for unsatisfactory quality. Under such conditions trading elsewhere for future deliveries carried prices sharply upward. When the new crop began to move it developed that while in many sections the crop was short in yield and poor in quality it was not uniformly so, and that with the reserves of old seed the supply was liberal.

In January, 1898, Clover Seed on arrival in this market ranged at \$2.75@3.00 per bushel of 60 pounds. In March there was a decline to \$2.45@2.65. With the opening of the new season the range in the latter part of September and in October was \$3.25@3.50, advancing in November to \$3.25@3.75, at which the year closed. The year's average price was \$3.05 per bushel, compared with \$3.50 in 1897, and an annual average of \$4.75 for a period of five years prior to 1898.

For Timothy Seed the season of 1898 proved favorable, the Western production being especially large, and under the unusual offerings prices were brought to the lowest point of market records. The autumn demand was large. The general range of prices in this market at the opening of the calendar year was \$1.15@1.25 per bushel of 45 pounds, for lots on arrival, which represented the situation to the close of spring trade. In August, with the offerings from the new crop, the range was mainly at \$1.10@1.15 per bushel, in September receding to \$1.00@1.15, and later in the month to \$0.95@1.10; in November the situation

was \$0.95@1.00, which prevailed to the close of the year. The average price for the year was \$1.11 per bushel, compared with \$1.20 in 1897, and an annual average of \$1.69 for five years prior to 1898.

The export movement of Clover and Timothy Seed is variable in quantity, under the conditions of foreign markets with reference to supplies, and the influence of prices in this country. For the fiscal year ending June 30, 1898, there was a decided increase in foreign exports of Clover Seed, but the total was short of the exceptional movement in 1893-94. The exports of Timothy Seed, however, were short of the preceding year.

The following compilation shows the foreign exports of Clover and Timothy Seed from the United States for years ending June 30, representing pounds:

KINDS.	1897-98	1896-97	1895-96	1894-95	1893-94	1892-93	1891-92	1890-91
Clover Seed.....	31,155,381	13,042,994	5,539,787	22,900,672	45,418,663	8,189,553	19,532,411	20,773,884
Timothy Seed....	10,238,780	16,738,993	11,894,536	4,939,237	10,155,867	7,077,131	3,613,187	144,848

For the current fiscal year, beginning July 1, 1898, the exports of Clover Seed for ten months to the end of April were about 18,800,000 pounds, compared with 29,000,000 pounds for corresponding time in the preceding year. Timothy Seed exports for ten months were about 15,000,000 pounds, compared with 10,000,000 in the preceding year.

Statistical data appear on pages 152, 158 and 170.

BUTTER AND BUTTERINE.

The receipts of Butter at Cincinnati in 1898 were larger than for any previous year for a long period, representing 138,500 packages, compared with 127,100 in 1897, and an annual average of 111,000 for five years prior to 1898. Shipments for the year were 27,300 packages, against 28,000 for 1897.

Prices of Creamery Butter averaged about 1 cent per pound higher than for the preceding year, the general average being 16.46 cents per pound, compared with 15.45 for 1897, and an annual average of 18 cents for five years prior to 1898. The prevailing range was 16@18 cents the first three months of the year, followed by 14@16 cents and 14@15 cents until August, when there was an advance to 16@17 cents, with 16@18 cents the prevailing range in October, 18@19 cents in November, and 17@18 cents in December. For choice Dairy Butter prices during the first half of the year ranged mostly at 10@11 cents, the outside being represented by 12 cents in March; the range in the last half of the year is closely represented by 11@12½, the prevailing price being 12 cents per pound at the close of the year. The general average for the year was 11.03 cents per pound, compared with 9.65 cents for 1897, and an annual average of 12 cents for a period of five years prior to 1898.

The receipts of Butterine were 2,333,500 pounds, compared with 2,085,000 pounds for the preceding year, showing considerable increase, the total, however,

not equaling some earlier years. Prices ranged at $11\frac{1}{2}$ @16 cents per pound, averaging $13\frac{3}{4}$ cents, compared with 12.80 cents for 1897, and an annual average of $14\frac{1}{4}$ cents for a period of five years prior to 1898.

The most of the Butter arriving in this market is handled by produce commission houses, dealing also in eggs, poultry, vegetables, fruits, etc., and to some extent grain, hay, seed, etc. There is additionally considerable quantities of Butter and other produce brought in from the adjacent country districts by wagons, disposed of by hucksters, and of which there is no record. A feature of the huckster trade is its unfavorable influence on the regular commission houses, which naturally feel the hardship which such deliveries of produce throughout the city, to small and large consumers and retailers, brings upon them, under a system which implies a small cost of conducting such operations by the huckster interest in comparison with that necessarily incurred by the commission trade.

Statistical data appear on pages 152, 155 and 156.

CHEESE.

Receipts of Cheese were considerably decreased in 1898, showing a total of 102,500 boxes, compared with 137,200 boxes in 1897, and an annual average of 136,000 for a period of five years prior to 1898. The shipments for the year were 56,800 boxes, against 89,900 in 1897. The range of prices of Factory Cheese was 7@11 cents per pound, 9@9 $\frac{1}{2}$ cents representing the first three months, 8 $\frac{1}{2}$ @9 cents the most of April and May, settling to 7@7 $\frac{1}{2}$ cents in June; for July, August and September prices shifted moderately within 7 $\frac{1}{2}$ @9 cents, and for October and November 8 $\frac{1}{2}$ @9 $\frac{1}{2}$ cents, advancing to 10@10 $\frac{1}{2}$ cents in December, and held at 10 $\frac{1}{2}$ @11 cents at the close. The year's average price was 8.68 cents per pound, compared with 9.05 cents for 1897, and an annual average of 9 $\frac{3}{8}$ cents for a period of five years prior to 1898.

Statistical data appear on pages 152, 155 and 157.

EGGS.

Receipts of Eggs were reduced in comparison with large arrivals for two years previously, the total indicating 306,400 cases, which compares with 339,400 cases for 1897, and an annual average of 322,000 cases for a period of five years prior to 1898. Shipments were 139,300 cases, against 176,400 cases in 1897. The year's range of prices was 8@20 cents per dozen, starting at 16 $\frac{1}{2}$ cents, ruling lower in February at about 12@12 $\frac{1}{2}$ cents, declining to 9 cents in March, and briefly to 8 cents, with 9 cents the prevailing price until August, when an advance to 10 $\frac{1}{2}$ cents and 12 cents was established, reaching 13 cents in September, 14 cents late in October, with subsequent changes until 20 cents represented the market in the latter part of December. The year's average was 12.14 cents per dozen, compared with 10.79 cents for 1897, and an annual average of 12.80 cents for a period of five years prior to 1898, within which time the highest yearly average was 16.30 cents, for 1893.

Statistical data appear on pages 152, 155 and 157.

GREEN FRUIT.

This market was less liberally supplied with Apples than in the two years previously, but other kinds of Green Fruit in a general way were not deficient. The receipts of Apples were 233,600 barrels, compared with 385,400 in 1897, and an annual average of 305,000 barrels for a period of five years prior to 1898. Shipments for the year were 103,300 barrels, against 202,200 barrels in 1897. For the first five months of the year the general range of prices of choice Apples was \$2.75@4.00 per barrel, the outside prices being about \$3.25 in January, \$3.75@4.00 in February, \$3.25@3.50 in March, \$3.00@3.25 in April, and \$3.25 in May. New crop Apples sold in July at \$2.00@2.50 per barrel, with outside prices \$2.00@2.50 in August, \$2.00@2.25 in September, \$2.50 in October, \$3.00 in November, and \$3.00@3.25 in December. The year's average was \$2.76 per barrel, compared with \$1.97 for 1897, and an annual average of \$2.40 for a period of five years prior to 1898.

For other green fruit, including Peaches, Pears, Cherries, Plums and Berries, the reported receipts for the year were 16,775 tons, compared with 16,500 tons for 1897, 15,900 for 1896, 14,500 for 1895, 13,700 for 1894, and 13,200 for 1893—the annual average for five years prior to 1898 being 14,700 tons.

Oranges were in enlarged supply, but the quantity was small in comparison with years of plentifulness. Receipts were 138,300 boxes, compared with 108,600 in 1897. The high record was for 1894, when receipts represented 665,000 boxes. The outside range in prices of choice Oranges was \$3.75 per box in January, advancing to \$4.00 in February and March; in the latter part of March a sharp decline occurred, with outside figures at \$3.10, advancing to \$4.00 in May. For August, September and October the outside price was generally \$3.50 per box, and for December \$4.00. The year's average was \$3.05 per box, compared with \$3.70 for 1897, and \$3.85 for 1896.

The supply of Lemons was decidedly reduced for the year, and the smallest in quantity for many years, representing a total of 42,100 boxes, compared with 68,200 boxes in 1897. The average of prices was \$4.20 per box, compared with \$3.25 in 1897.

Cincinnati dealers do a large distributing business in fruit, filling orders from markets in Ohio and adjacent States, and in the Eastern States, to a large extent. The trade has the advantage of excellent cold-storage facilities, which serve to give relief to overstocked conditions of the market, and to meet requirements in times of slack receipts.

Statistical data appear on pages 152, 170 and 172.

DRIED FRUIT.

The aggregate receipts of Dried Fruit represented the smallest quantity for several years, showing a total of 4,341,000 pounds, compared with 5,686,000 pounds in 1897, 5,708,000 in 1896, 9,266,000 in 1895, and 6,897,000 in 1894. For five years prior to 1898 the average annual receipts were 6,180,000 pounds. Shipments in 1898 were 3,455,000 pounds, against 3,618,000 in 1897.

The large crops of Apples, Peaches and Prunes in 1897 afforded liberal production of dried products, and much of such fruit was carried forward to the season of 1898, with the low prices established in 1897 continuing into 1898. With the evidences of an exceptionally small crop of Apples, apparent as the season advanced, higher prices were placed upon the carried-over stock as well as the new production of Dried Fruit, and the accumulation disappeared, excepting in the instance of Prunes. The year closed with a higher position of prices than experienced for several years, especially so for Evaporated and Dried Apples, of which the stocks were reduced to an unusually low point. The details appearing on page 173 reflect the changes in Dried Apples, Dried Peaches and Dried Apricots.

For California Dried Peaches the range of prices in the early part of 1898 was 7@8 cents and 6@7 cents per pound; for the new season, in the latter part of the year, the range was mostly within 9@10 cents per pound; the year's average was 8.05 cents per pound, compared with 7.13 cents in 1897, and an annual average of 6½ cents for a period of five years prior to 1898. For Apricots the average for the year was 9.77 cents per pound, compared with 8.88 cents for 1897, and 9.16 cents for 1896; the year closed with the range at 13@18½ cents per pound.

For the calendar year 1898 the exports of Dried Apples from the United States were 30,098,000 pounds, compared with 31,711,000 pounds in 1897, 24,485,000 in 1896, 19,331,000 in 1895, and 5,309,000 in 1894.

Statistical data appear on pages 152, 170 and 173.

FEATHERS.

Receipts of Feathers in 1898 somewhat exceeded the unusual quantity in the preceding year, reaching 22,500 sacks, compared with 22,100 sacks in 1897, and an annual average of 17,500 sacks for a period of five years prior to 1898. The receipts in 1898 represented approximately 1,125,000 pounds. Prices were without radical change during the year, opening at 33 cents per pound for good average color, advancing in January to 34@35 cents, with 34 cents the prevailing price in May and during the remainder of the year. The average for the year was 34 cents, compared with 35 cents in 1897, and an annual average of 37½ cents for a period of five years prior to 1898.

Statistical data appear on pages 153, 154 and 173.

POTATOES.

The high record of the preceding year was exceeded in the receipts of Potatoes in 1898, with a total of 750,900 barrels, which has been equaled in but one instance, for 1895. The receipts in 1897 were 734,500 barrels, and the annual average for a period of five years prior to 1898 was 675,000 barrels. Shipments for the year were 259,400 barrels, against 319,500 in 1897. Standard quality Potatoes in lots on track sold in January at 60@75 cents per bushel, in February at 62@70 cents, in March at 65@73 cents, in April at 63@90 cents, in May at 60@75 cents

—the general average for this period being about 71 cents per bushel. Sales from store were generally about 10 cents per bushel above track prices. In August track lots of good to choice quality sold mostly with a range of 50@58 cents per bushel, some instances up to 60 cents; in September the range was 35@60 cents, averaging about 48 cents; in October, at 32@45 cents, averaging about 40 cents; in November, 35@43 cents, few going higher than 38 cents; in December, 35@40 cents; general average for five months about 44 cents. The year's general average was 57 cents per bushel for track lots of good to choice quality, exclusive of some early transactions in new stock. Barreled Potatoes from store averaged \$1.93 per barrel, compared with \$1.54 for 1897, and an annual average of \$1.67 for a period of five years prior to 1898.

The production of Potatoes is quite variable. The crop of 1898 is officially estimated at 192,000,000 bushels, compared with 164,000,000 in 1897, 252,000,000 in 1896, and 297,000,000 in 1895. For ten years prior to 1898 the production averaged 203,000,000 bushels annually.

Statistical data appear on pages 152, 170 and 171.

TALLOW.

Receipts of Tallow were largely increased, and in only one instance were previously equaled. The records show 74,900 tierces, compared with 48,900 in 1897, and an annual average of 51,400 tierces for a period of five years prior to 1898. Shipments were 9,200 tierces, against 2,400 in 1897. The range of prices of prime quality was $3\frac{3}{4}$ @ $4\frac{1}{2}$ cents per pound, averaging 3.90 cents, compared with 3.59 cents for 1897, and an annual average of 4.54 cents for a period of five years prior to 1898.

Exports of Tallow from the United States in 1898 were 106,819,000 pounds, compared with 55,609,000 in 1897, and 84,449,000 in 1896.

Statistical data appear on pages 153, 160 and 167.

HIDES.

Receipts of Hides in 1898 were 568,900, exceeding any previous record. For 1897 the total was 464,400, and the annual average for a period of five years prior to 1898 indicates 473,000—the past year being over 20 per cent in excess of this average. No. 1 Wet Salted sold in January at $8\frac{1}{2}$ cents per pound; the first of February advanced to 9 cents; late in March receded to $8\frac{1}{2}$ cents, which closely represented the market until May, from which time $9@9\frac{1}{2}$ cents covered the changes up to November, and $8\frac{1}{2}$ @ $8\frac{3}{4}$ cents for the remainder of the year. The lighter weight Hides sold somewhat under these prices. The average price for the year for light to heavy was 8.71 cents per pound, compared with 7.73 cents for 1897, and an annual average of 5.39 cents for a period of five years prior to 1898. At the close of the year the various designations of Hides were quoted as follows: No. 1 Wet Salted, $8\frac{3}{4}$ cents; No. 2 Wet Salted, $7\frac{3}{4}$; No. 1 Green, 25 pounds and over, $7\frac{1}{2}$ @ $7\frac{3}{4}$; No. 2 Green, 25 pounds and over, $6\frac{1}{2}$ @ $6\frac{3}{4}$; No. 1 Dry Flint, $12\frac{1}{2}$ @13; No. 1 Dry Salted, 11.

The exportation of Hides from the United States in 1898 was comparatively small, 11,397,000 pounds, compared with 18,778,000 in 1897, and 42,009,000 in 1896. The importations in 1898 were 257,095,000 pounds, as compared with 236,372,000 in 1897, and 146,159,000 in 1896.

Statistical data appear on pages 153 and 155.

LEATHER.

Receipts of Leather in 1898 far exceeded any previous record, showing a total of 152,300 bundles, compared with 101,900 for 1897, and an annual average of 85,000 for a period of five years prior to 1898. Shipments for the year were 118,400 bundles. The local manufacture of Leather, which was decidedly increased in the preceding year, was further increased largely in 1898, the gain being over 20 per cent, the total output equaling or possibly exceeding \$6,000,000. The local consumption of Leather is large, in the manufacture of boots and shoes, harness, saddlery, carriage trimmings, and a variety of other products. Prices of oak-tanned Sole Leather averaged about the same as in the preceding year, 25.96 cents per pound, for best light to heavy, against 25.92 cents for 1897, and an annual average of 24.60 cents for a period of five years prior to 1898.

Exports of Sole Leather from the United States in 1898 were 36,763,000 pounds, compared with 34,090,000 in 1897, and 42,300,000 in 1896. Such exports are destined chiefly to the United Kingdom, which represented 81 per cent of the clearances in 1898.

Statistical data appear on pages 153 and 155.

SALT.

The receipts of Salt in 1898, including reported sales of local dealers for direct shipment, make a total of 525,000 barrels, compared with 755,400 barrels in 1897, and an annual average of 580,000 barrels for a period of five years prior to 1898. Shipments were 424,400 barrels. The sources of supply continue to be chiefly Ohio River and Kanawha districts and Michigan.

Prices of Ohio River and Kanawha product had very little of fluctuation during the year, ranging at $77\frac{1}{2}$ to $82\frac{1}{2}$ cents per barrel of 280 pounds (5 bushels) for the first four months of the year, and subsequently selling at 75 cents during the remainder of the year. The average quotation was 77 cents per barrel, compared with 75 cents for 1897, and an annual average of 81 cents for a period of five years prior to 1898.

Salt was exported from the United States to the extent of 17,280,000 pounds in 1898, compared with 4,383,000 in 1897.

Statistical data appear on pages 153, 154 and 159.

WOOL.

The receipts of Wool at Cincinnati fluctuate widely. For the past year the quantity was the smallest for a period of ten years, making a total of 16,900 bales, compared with 45,600 bales in 1897, and an annual average of 24,600 bales

for five years prior to 1898. Shipments were 20,400 bales. The general tendency of prices, which in 1897 was upward, was downward in 1898, without important difference in the average prices for the two years. Ohio Fleece-washed sold at 27@30 cents per pound early in the year, at 24@26 cents in June and July, 22@24 cents in August, 21@22 cents in September, 20@22 cents in October, and subsequently at 20@21 cents. The average for the year was 24.95 cents per pound, compared with 24.45 cents in 1897, and an annual average of 21.20 cents for a period of five years prior to 1898.

Imports of Wool into the United States in 1898, for the calendar year, were 99,850,000 pounds, compared with 356,839,000 pounds in 1897, and 159,776,000 pounds in 1896. Of the total for 1898 clothing grades represented 27,144,000 pounds; combing, 1,205,000 pounds; carpet, 71,501,000 pounds. The aggregate value was \$11,586,000, averaging 11.60 cents per pound.

Statistical data appear on pages 153, 155 and 161.

HOPS.

Following the small arrivals in the preceding year the receipts of Hops in 1898 were large, and in only one instance previously exceeded. The record shows 20,100 bales, compared with 7,800 in 1897, and an annual average of 16,400 bales for a period of five years prior to 1898. Shipments were 10,400 bales. Prices were fairly steady at 16 cents per pound for choice quality the first three months of the year, 15@16 cents the second three months, mostly at 14 cents the third three months, and 19 and 20 cents for new stock in the later months. The general average for the year was 15.90 cents per pound, compared with 12.20 cents for 1897, and an annual average of 13.80 cents for a period of five years prior to 1898.

Statistical data appear on pages 153, 154 and 169.

LARD OIL.

Prices of Lard Oil were decidedly higher than in 1897 during most of the past year, closing with an average of 45 cents per gallon, compared with 38 cents for the preceding year, and an annual average of 58 cents for a period of five years prior to 1898. The year opened at 40@43 cents per gallon, had a range of 40@55 cents, and closed at 44@46 cents.

Weekly prices appear on page 160; annual prices on page 153.

LINSEED OIL.

The price of Linseed Oil at the beginning of the year was 39 cents per gallon, subsequently advancing until 47 cents was reached in May, and for a time maintained, followed by a decline in June, with a tendency downward until 33 cents was reached in the latter part of September, after which there was some reaction, the year closing at 39 cents. The average for the year was 39 cents per gallon, compared with 32 cents for 1897, and an annual average of 43 cents for a period of five years prior to 1898.

Weekly prices appear on page 160; annual prices on page 152.

CANDLES AND SOAP.

There was an increased distribution of Candles from this market in 1898, the shipments showing a total of 137,200 boxes, which compares with 125,500 boxes for 1897, and an annual average of 139,000 boxes for a period of five years prior to 1898. Star Candles were quoted at $6\frac{1}{4}$ @ $6\frac{3}{4}$ cents per pound in December, and $6\frac{3}{4}$ cents previously during the year—making the yearly average 6.72 cents per pound, which compares with 6.57 cents for 1897, and an annual average of 7.86 cents for a period of five years prior to 1898.

Cincinnati is one of the most prominent in the country in the manufacture of Soap, which industry was actively maintained the past year, advancing the record of output and distribution, the gain in manufacture being about 6 per cent in comparison with the high position reached in the preceding year. The valuation of the year's shipments was approximately \$7,865,000, compared with \$7,730,000 for 1897, and \$7,145,000 for 1896. Prices were somewhat reduced on some grades, but for the most part maintained on the higher-class brands.

Statistical data appear on pages 153, 168 and 169.

STARCH.

The local production of Starch was enlarged in 1898, reaching a higher record than for any previous year. The total manufacture was 33,500,000 pounds, compared with 31,500,000 pounds in 1897, and an annual average of 28,700,000 pounds for a period of five years prior to 1898. Receipts from other localities were 645,200 boxes. Shipments for the year were 1,126,100 boxes, compared with 704,700 boxes in 1897, and an annual average of 617,000 boxes for five years prior to 1898. There was but little change in the average price, which was 2.34 cents per pound, or slightly below the preceding year's average, which was 2.36 cents; the average annual price for a period of five years prior to 1898 was 2.86 cents per pound.

Statistical data appear on pages 153, 154 and 168.

NAVAL STORES.

Receipts of Rosin at Cincinnati in 1898 were greatly increased over the high record of the preceding year, amounting to 185,400 barrels, compared with 109,300 barrels in 1897, and an annual average of 93,500 barrels for a period of five years prior to 1898. Shipments were 75,900 barrels, compared with 58,300 in 1897, and an annual average of 43,300 barrels for a period of five years prior to 1898. Prices of Rosin ranged at \$1.55@1.90 per barrel for carlots, averaging \$1.68 per barrel, compared with \$2.12 per barrel for 1897. Prices for small lots from store were 10 cents per barrel above carlot rates.

Receipts of Turpentine were largely in excess of the exceptionally high record of the preceding year, indicating a total of 58,300 barrels, compared with 38,500 barrels in 1897, and an annual average of 26,500 for a period of five years prior to 1898. Shipments were 44,700 barrels. Prices were advanced, and were higher than for several years, averaging 34.61 cents per gallon, compared with 29.32

cents for 1897, and an annual average of 31.70 cents for a period of five years prior to 1898.

Statistical data appear on page 169.

GROCERIES.

In staple articles of Groceries there was an increased volume of business in 1898 in this market, although the total valuation was, apparently not in excess, and possibly somewhat below, the operations of some previous years, when prices of commodities were higher. Returns from dealers to the Chamber of Commerce indicate an average gain of about 6 per cent over the sales of Groceries for the preceding year, the total reaching \$19,600,000, compared with \$18,500,000 in 1897, \$17,500,000 in 1896; \$19,250,000 in 1895, \$18,900,000 in 1894, \$20,450,000 in 1893, \$18,590,000 in 1892, \$18,400,000 in 1891, \$18,200,000 in 1890. Prices of Coffee were reduced in 1898, while most other staples averaged higher than for the preceding year. The receipts of sugar were reduced, and of other leading articles increased during the past year.

The receipts of Coffee for the year were 358,200 bags, compared with 346,900 bags in 1897, and an annual average of 267,000 bags for a period of five years prior to 1898. The arrivals the past year were the largest on record. The year began with Fair Rio quoted at 9½ cents per pound, immediately declining to 9½ cents, and before the close of January to 9 cents, with further reduction in March to 8½ cents, followed by a reaction to 9½ cents in April, with a subsequent declining tendency until August, reaching 8½ cents, and later as low as 8½ cents. The year's range was 8½@9½ cents, closing at 9½ cents, averaging 9.02 cents, compared with 13.29 cents for 1897, 17.01 cents for 1896, and 19.82 cents for 1895. For Prime the year's average was 9.74 cents, compared with 15.02 cents for 1897, and an annual average of 19.10 cents for a period of five years prior to 1898.

The receipts of Sugar were 266,900 barrels, compared with 276,900 barrels in 1897, and an annual average of 269,500 barrels for a period of five years prior to 1898. Shipments were 126,100 barrels. There were also received 917 hogsheads, and shipments of 541 hogsheads. Prices averaged higher than for several years previously, ruling without striking changes for most of the year, or until October, when considerable reduction was made, followed by some fluctuations. The year opened at 5.47@6.10 cents per pound as the range for Hards, closed at 5.22@5.72 cents, and averaged 5.74 cents, compared with 5.29 cents in 1897, and an annual average of 5.15 cents for a period of five years prior to 1898. For A White the range at the beginning of the year was 4.21@4.34 cents per pound, closing at 4.85@5.10 cents, with an average of 5.36 cents, compared with 4.66 cents for 1897, and an annual average of 4.62 cents for a period of five years prior to 1898.

The receipts of Molasses were 57,300 barrels, compared with 40,800 barrels in 1897, and an annual average of 45,600 barrels for a period of five years prior to 1898. Prices were higher than for the preceding year, averaging 31.82 cents per gallon for Prime New Orleans, compared with 26.13 cents for 1897, and an annual average of 30.50 cents for a period of five years prior to 1898. Much of the supply was of a quality which sold considerably below the quotations for Prime.

The receipts of Rice were decidedly increased, amounting to 39,500 barrels, compared with 23,100 barrels in 1897, and an annual average of 38,900 barrels for a period of five years prior to 1898. Shipments were 22,600 barrels. Prices of Louisiana Rice ranged at $5\frac{1}{2}$ @7 cents per pound, averaging 6.03 cents for the year, compared with 5.24 cents for 1897, and an annual average of 4.58 cents for a period of five years prior to 1898.

At New York the average price of No. 7 Rio Coffee in 1898 was 6.30 cents per pound, compared with 7.73 cents for 1897, 15 cents for 1896, 15.83 cents for 1895, 16.40 cents for 1894, and 17.08 cents for 1893, the average annual price for five years prior to 1898 being 14.41 cents. A New York authority says: "The year 1898 is one of exceptional interest so far as Coffee is concerned, the record showing that the production of Coffee, stimulated by years of high prices, has far outstripped the consumptive requirements of the world, and that such condition is likely to continue for several years. The world's visible supply began to increase in 1896, and from July of that year it rose from 2,588,000 bags to 7,128,800 bags on November 1, 1898, declining since to 6,600,700 bags on January 1, 1899. This large supply is about one-half the world's average production for the last two years, and is a bulwark against any 'bull' movement until there is a partial failure in supply."

The deliveries of Coffee in the United States in 1898 were 5,825,163 bags, and in Europe 8,207,091 bags, making a total of 14,032,254 bags, compared with a total of 13,112,159 bags for 1897, and 11,628,725 bags for 1896. Of the deliveries in the United States in 1898 there were 4,643,672 bags of Brazil product, and 1,181,491 bags of all other sorts, indicating that Rio and Santos Coffee represented 79.7 per cent of the total supply.

The extension of the Coffee producing industry in Mexico, Central America and Venezuela has been progressing, and increasing supplies are being furnished by these countries, and it is believed will continue on an enlarging scale. The quality of such product is superior.

The Sugar trade has been affected by special events in the year 1898. The Spanish-American war, with the resulting stopping of insurgent and other devastating influences, opens the way to restoration of the Sugar industry in Cuba, and the supply of cane product as a natural result is expected to increase from that source. What influence the acquisition of the Hawaiian Islands may have is somewhat problematical. The year witnessed competitive contentions between the American Sugar Refining Company and independent refineries, notably in the later months, bringing about more or less irregular markets, and some innovations in trade features.

At New York the year began with Fair Refining Sugar at 3.75 cents per pound, the highest quotation being 4 cents, the lowest 3.50 cents, the closing 3.81 cents, the average 3.71 cents, against 3.07 cents for 1897. For Centrifugal Sugar (96 degrees) the year began at 4.18 cents, the highest quotation being 4.50 cents, the lowest 4.06 cents, the closing 4.31 cents, the average 4.23 cents, compared with 3.56 cents for 1897, and an annual average of 3.48 cents for five years prior to 1898. For Granulated the opening price was 4.96 cents, the highest 5.21 cents, the lowest 4.72 cents, at which the year closed, the average being 4.97 cents, com-

pared with 4.50 cents for 1897, and an annual average of 4.43 cents for five years prior to 1898. These prices are based on weekly quotations.

The consumption of Sugar in 1898 in the United States is recognized as about 2,047,000 tons (of 2,240 pounds) against 2,071,000 tons in 1897, 1,960,000 in 1896, 1,950,000 in 1895, 2,013,000 in 1894, and 1,906,000 in 1893. A New York authority says: "The consumption of 1898 consisted of 317,447 tons of domestic cane sugar, 33,960 tons of domestic beet sugar, 5,000 tons maple, 300 tons sorghum, 1,700 tons molasses sugar—a total of 358,407 tons domestic production; and 1,432,847 tons of foreign cane sugar, 179,465 tons of foreign raw beet sugar, 26,625 tons of foreign refined—a total of 1,638,937 tons of foreign production."

The Beet Sugar industry in this country did not advance as much as was expected the past year. In fact the production appears to have been somewhat less than in 1897, but the industry is interesting capital to an enlarged degree, and the near future will surely witness a great increase in the domestic production. The manufacture of beet product in 1898 is estimated at 34,000 tons, compared with 41,000 tons in 1897, 40,000 in 1896, and 30,000 in 1895.

The world's crop of Sugar for 1898-99 is estimated at 7,857,000 tons (2,240 pounds), compared with 7,788,000 for 1897-98, 7,823,000 for 1896-97, 7,253,000 for 1895-96, and 8,324,000 for 1894-95. For 1898-99 cane product represents 2,947,000 tons, and beet product 4,910,000 tons.

The average annual domestic consumption of Coffee is approximately 9 pounds; of Sugar, 63 pounds; of Tea, 1½ pounds, per capita of population.

The pack of Canned Tomatoes in the United States in 1898 was 5,652,000 cases (2 dozen cans each), compared with 3,964,000 cases in 1897, and an annual average of 4,500,000 cases for five years prior to 1898. The pack of Canned Corn in 1898 was 4,398,000 cases, compared with 2,908,000 cases in 1897, and an annual average of 3,275,000 cases for five years prior to 1898.

Statistical exhibits appear on pages 162 to 167, inclusive.

PETROLEUM.

The receipts of Petroleum in this market in 1898 were increased 10 per cent in comparison with the reduced quantity for the preceding year. The total was 417,300 barrels, compared with 377,400 barrels for 1897, and an annual average of 425,000 barrels for five years prior to 1898. Shipments for the year were 142,000 barrels, compared with 144,100 for 1897, and an annual average of 203,000 barrels for five years prior to 1898. Local dealers do a large business in the way of sales for direct shipment from sources of supply to points of destination, the extent of which was greatly increased the past year in comparison with the returns for three years previously, but somewhat short of some earlier years. These sales amounted to 1,225,200 barrels in 1898, compared with 939,200 for 1897, and an annual average of 1,016,000 barrels for five years prior to 1898. The combined volume of receipts and direct sales represent an aggregate of 1,642,500 barrels for 1898, compared with 1,116,600 barrels for 1897, and an annual average of 1,401,000 barrels for five years prior to 1898.

The price of Illuminating Oil in this market was 6½@7 cents per gallon the

beginning of the year, and $6\frac{1}{4}$ to $7\frac{1}{4}$ cents from March to December, inclusive—giving an average of 6.86 cents per gallon, compared with 6.75 cents for 1897, and an annual average of 6.88 cents for five years prior to 1898.

Cincinnati is a large distributing point for Petroleum. This business has been promoted by the construction of suitable warehouses and terminal facilities of the railroads, by which there is ready distribution of large and small quantities.

The products of Petroleum continue to maintain their claims in competition with other products for purposes of illumination, lubrication, etc., and also for fuel and power uses.

The yearly production of Petroleum in the United States, and estimated value, according to reports of the office of the United States Geological Survey, are shown in the following, quantities representing barrels of 42 gallons:

YEARS.	Quantity.	Value.	YEARS.	Quantity.	Value.
1888.....	27,612,000	\$17,947,000	1898.....	48,412,000	\$28,932,000
1889.....	35,168,000	26,968,000	1894.....	49,344,000	35,522,000
1890.....	45,822,000	35,365,000	1896.....	52,988,000	57,682,000
1891.....	54,292,000	30,526,000	1896.....	60,960,000	56,518,000
1892.....	50,509,000	26,034,000	1897.....	60,568,000	40,930,000

The valuation in the foregoing exhibit is understood to reflect the first price at points of production. The production in the calendar year 1897 represented 2,544,000,000 gallons, and the average valuation in first hands 1.61 cents per gallon. The exports of refined product for the calendar year 1896 were 823,422,000 gallons, valued at \$57,598,000; in 1897, 870,810,000 gallons, valued at \$54,628,000; in 1898, 847,607,000 gallons, valued at \$47,592,000.

Statistical data appear on pages 153, 160, 167 and 168.

COTTON.

The local trade in Cotton at Cincinnati is of moderate proportions, the geographical position of this market in the relation to sources of supply and localities of large consumption putting it to more or less disadvantage in competitive operations. The reported receipts here largely represent through movement. The total for 1898 was 313,700 bales, compared with 249,700 bales for 1897, and an annual average of 275,000 bales for five years prior to 1898. Shipments were 288,700 bales, compared with 240,600 bales for 1897, and an average of 265,600 bales for five years prior to 1898. For the commercial year ending September, 1898, the local consumption of Cotton was about 10,000 bales, exclusive of a considerable quantity of "linters;" for 1896-97 the consumption was 9,000 bales; for five years prior to 1897-98 the average was 11,800 bales.

Middling Cotton sold during the calendar year 1898 in this market at a range of $5\frac{1}{8}$ to $6\frac{1}{8}$ cents per pound, averaging 5.69 cents, compared with 6.96 cents for 1897, and an annual average of 7.37 cents for five years prior to 1898. The year opened at $5\frac{1}{8}$ cents, and closed at the same position, the highest quotation being in April, May and June, the lowest in October and November. This market is governed by changes at the seaboard, especially by prices at New York.

The following compilation shows the range of monthly prices for a period of six years at New York for Middling Upland Cotton, per pound, fractions stated decimally:

MONTHS.	1896	1897	1898	1895	1894	1893
January.....	5.87@5.94	7.06@7.37	8.19@8.31	5.62@5.75	7.87@8.31	9.44@9.94
February.....	5.94@6.31	7.00@7.44	7.81@8.25	5.56@5.62	7.62@8.06	9.00@9.44
March.....	6.06@6.31	7.19@7.44	7.62@8.00	5.56@6.44	7.50@7.75	8.62@9.25
April.....	6.19@6.44	7.81@7.75	7.87@8.25	6.37@7.00	7.87@7.75	7.75@8.56
May.....	6.31@6.56	7.62@7.87	8.00@8.37	6.75@7.37	7.12@7.87	7.62@7.81
June.....	6.31@6.56	7.69@7.87	7.44@8.00	7.00@7.25	7.25@7.44	7.62@8.06
July.....	6.06@6.25	7.87@8.00	7.06@7.44	7.00@7.19	6.94@7.31	7.94@8.19
August.....	5.75@6.12	7.87@8.25	7.44@8.62	7.12@8.19	6.87@7.00	7.25@8.00
September.....	5.81@5.81	6.75@7.81	8.19@8.87	8.12@9.12	6.31@6.94	7.81@8.44
October.....	5.81@5.56	6.00@6.75	7.94@8.37	8.50@9.37	5.75@6.31	8.06@8.56
November.....	5.81@5.56	5.81@6.00	7.62@8.19	8.37@9.00	5.56@6.00	7.94@8.37
December.....	5.66@5.87	5.81@5.94	7.06@7.69	8.25@8.56	5.69@5.81	7.81@8.06
Year.....	5.81@6.56	5.81@8.25	7.06@8.87	5.56@9.37	5.56@8.31	7.25@9.94

NOTE.—Fractions are represented as follows: $\frac{1}{8}$ as .06; $\frac{1}{4}$ as .12; $\frac{1}{2}$ as .19; $\frac{3}{4}$ as .25; $\frac{1}{8}$ as .31; $\frac{1}{4}$ as .37; $\frac{1}{2}$ as .44; $\frac{3}{4}$ as .50; $\frac{1}{8}$ as .56; $\frac{1}{4}$ as .62; $\frac{1}{2}$ as .69; $\frac{3}{4}$ as .75; $\frac{1}{8}$ as .81; $\frac{1}{4}$ as .87; $\frac{1}{2}$ as .94.

The Cotton crop of the United States for the year ending September 1, 1898 (grown in 1897), as estimated by the New York *Financial Chronicle*, was 11,181,000 bales, compared with 8,714,000 bales for 1897, and an annual average of 8,003,000 bales for five years, and 7,897,000 bales for ten years, prior to 1897-98. The average gross weight of bales in 1897-98 was 506.88 pounds, compared with 485.35 pounds for 1887-88, there having been a general tendency in late years to a heavier average; for ten years prior to 1897-98 the annual average was 498.60 pounds.

The domestic consumption of Cotton for the year ending September 1, 1898, is shown to represent 3,504,000 bales, compared with 2,887,000 for 1896-97, and 2,586,000 for 1895-96. The North represents 2,276,000 bales, and the South 1,228,000, for 1897-98. The exports to foreign countries were 7,532,600 bales, and shipments by rail to Canada 113,400 bales—making a total of 7,646,000 bales, compared with 6,045,000 for 1896-97, and 4,713,000 for 1895-96.

The number of Cotton mills reported for the South was 391—North Carolina having 153, South Carolina 71, Georgia 68, Alabama 35, Tennessee 24, all other 40. These mills represented a total of 91,829 looms, and 3,574,754 spindles. Compared with the preceding year there was an increase of 16 mills, 8,956 looms, and 377,209 spindles.

To illustrate the various features of the world's Cotton industry the following is tabulated from data appearing in the annual statement of the *Financial Chronicle*, based on bales of 500 pounds:

SUPPLY AND CONSUMPTION.	1897-98	1896-97	1895-96	1894-95	1893-94	1892-93
Crop of United States.....	10,890,000	8,485,000	6,912,000	9,640,000	7,186,000	6,485,000
Supply of other countries.....	1,665,000	1,924,000	1,938,000	1,625,000	2,196,000	2,172,000
Total crop.....	12,555,000	10,359,000	8,850,000	11,265,000	9,382,000	8,607,000
Consumption in United States.....	3,002,000	2,734,000	2,572,000	2,748,000	2,264,000	2,551,000
Consumption in Great Britain.....	3,406,000	3,224,000	3,276,000	3,250,000	3,233,000	2,866,000
Consumption on Continent.....	4,485,000	4,368,000	4,160,000	4,080,000	3,827,000	3,661,000
Consumption in India.....	1,075,000	1,004,000	1,105,000	1,074,000	959,000	918,000
World's consumption.....	11,968,000	11,334,000	11,118,000	11,097,000	10,283,000	9,996,000

The annual average of the world's consumption of Cotton for five years ending with 1897-98 was 11,159,000 bales; for the preceding period of five years the average was 9,869,000 bales; for ten years 10,514,000 bales.

The United States Department of Agriculture estimates the Cotton crop of 1897-98 at 10,897,857 commercial bales, or 283,000 less than the estimate of the *Financial Chronicle*.

The average commercial value of the Cotton crop of 1897-98 has been estimated at about \$28.60 per bale, compared with \$36.75 for 1896-97, \$41.10 for 1895-96, \$30.00 for 1894-95, \$37.50 for 1893-94, and \$42.50 for 1892-93. The total valuation on this basis represents approximately \$320,000,000 for 1897-98, \$320,000,000 for 1896-97, \$294,000,000 for 1895-96, \$297,000,000 for 1894-95, \$282,000,000 for 1893-94, and \$285,000,000 for 1892-93.

The Department of Agriculture report of acreage of the 1897-98 Cotton crop is as follows: Texas, 7,164,175 acres; Georgia, 3,537,702; Mississippi, 2,778,610; Alabama, 2,709,460; South Carolina, 2,074,778; Arkansas, 1,619,785; North Carolina, 1,302,437; Louisiana, 1,245,399; Tennessee, 967,077; all other, 920,161—in all, 24,319,584 acres; average yield per acre, .45 bale; acres per bale, 2.23. There was an increase of 1,046,375 acres in comparison with the preceding crop.

Statistical data appear on pages 170, and 175 to 178, inclusive.

LEAF TOBACCO.

Receipts of Leaf Tobacco at the warehouses in Cincinnati in 1898 were considerably reduced, and, in fact, the smallest in quantity for many years. This was due to the shortness of the crop of 1897. The records show the total receipts to have been 70,705 hogsheads, of which 50,205 were received at the auction warehouses. For the preceding year the total receipts were 99,163 hogsheads, of which 80,586 represented receipts at the warehouses. For ten years prior to 1898, the total receipts indicated an annual average of 106,500 hogsheads, and at the warehouses an average of 72,100 hogsheads—the very small supply in the first year of the period lowering the general average considerably.

At the auction sales the total offerings during the year were 68,403 hogsheads; rejections, 15,976 hogsheads; sales, 52,427 hogsheads. For the preceding year the offerings were 105,069 hogsheads; rejections, 23,288 hogsheads; sales, 81,781 hogsheads.

The amount realized from sales at the various auction warehouses in 1898 was \$5,693,000, compared with \$7,916,000 for 1897. The general average was equivalent to 9.10 cents per pound for all grades, compared with 8.05 cents for all grades in 1897, and an annual average of 9.25 cents for five years prior to 1898.

In addition to receipts in hogsheads there were received 34,187 cases and bales of Leaf Tobacco in 1898, compared with 32,566 in 1897, and an annual average of 31,800 for five years prior to 1898. The value of total arrivals at Cincinnati in 1898, including hogsheads, cases, and bales, was approximately \$8,900,000.

The small crop of 1897, which was the main source of supplies for 1898, naturally elevated expectations as to prices, but such calculations were not fully realized, notwithstanding the evidence that the total crop of 1897 did not much, if

any, exceed 60 per cent in comparison with the preceding crop. Manufacturers had stocked up liberally prior to the opening of 1898, and, therefore, were not active purchasers early in the year. The war with Spain had some influence unfavorably upon the trade, through the higher taxation imposed. As the season advanced, with indications of a large crop for 1898, the market more or less felt the influence of this prospect.

The Tobacco crop grown in 1898 proved to be a large one. The quality of the product, however, suffered to considerable extent during the curing period from dampness, and from lack of proper facilities for caring for the large yield.

The stocks of Leaf Tobacco at Cincinnati at the close of 1898 were unusually small—only 7,387 hogsheads, compared with 13,496 hogsheads a year previously, which was a lower record than for many years; for ten years prior to the close of 1898 the annual average stocks were 20,275 hogsheads.

The Smoking Tobacco industry at Cincinnati was further enlarged in 1898, with a production of 5,470,000 pounds, compared with 4,556,000 pounds in 1897. Including Covington and Newport, the total production was 5,963,000 pounds, compared with 4,671,000 for 1897.

Chewing Tobacco in late years has been produced only to a small extent at Cincinnati, but Covington and Newport maintain considerable business in this line, the total manufacture in 1898 reaching 1,152,000 pounds, compared with 1,171,000 pounds in 1897.

The manufacture of Cigars has long been an important industry at Cincinnati, and the year 1898 largely advanced the record, with a production of 227,903,000, against 169,176,000 in 1897. Adding the Newport and Covington manufacture, the total for Cincinnati and immediate vicinity was 236,368,000, compared with 175,940,000 for 1897, and an average of 162,300,000 for five years prior to 1898.

Cigarettes were manufactured at Cincinnati in 1898 to the extent of 9,954,000, compared with 5,266,000 in 1897.

The exports of Leaf Tobacco from the United States (exclusive of stems and trimmings) for the fiscal year ending June 30, 1898, were 252,259,000 pounds, compared with 305,978,000 pounds for the preceding year, and an annual average of 280,930,000 pounds for five years prior to 1898. The value of the exports for 1897-98 was \$21,924,000, and the annual average for five years previously was \$23,955,000. Of the total exports in 1897-98, there was 35 per cent for the United Kingdom, 21 per cent for Germany, 9 per cent for Italy, 9 per cent for France, 17 per cent for other countries of Europe, and 9 per cent for all other countries.

Statistical data appear on pages 153, and 187 to 189, inclusive.

CLOTHING.

The local manufacture of Clothing is a prominent industry, and great enterprise has been maintained in this line. The gain in value of the output in 1898, in comparison with the preceding year, was not large. The aggregate of local sales, as indicated by special inquiry, was about 2½ per cent in excess of 1897. A large part of such sales represent local manufacture. This city has held a high

position in reputation for quality of such products. Much of the distributive trade is southward, and this has had to contend with the influence of low prices of cotton on the buying ability in those regions.

Special returns to the Chamber of Commerce from manufacturers of and dealers in Clothing indicate the total value of sales in 1898 to have been approximately \$21,250,000, compared with \$20,750,000 in 1897, and an annual average of \$20,050,000 for five years prior to 1898. In addition to this large business in Clothing there is also a large volume of trade in furnishing goods, women's apparel, etc., estimated to equal or exceed \$5,000,000 yearly, much of which represents products of local manufacture.

The following indicates approximately the value of yearly sales of Clothing by manufacturers and dealers at Cincinnati, according to special returns to the Cincinnati Chamber of Commerce:

1880-81.....	\$17,605,000	1886-87.....	\$17,910,000	1893.....	\$21,725,000
1881-82.....	17,100,000	1887-88.....	18,415,000	1894.....	18,700,000
1882-83.....	18,025,000	1888-89.....	18,510,000	1895.....	19,650,000
1883-84.....	16,965,000	1889-90.....	21,060,000	1896.....	18,875,000
1884-85.....	17,155,000	1890-91.....	23,220,000	1897.....	20,750,000
1885-86.....	17,180,000	1891-92.....	23,450,000	1898.....	21,250,000

DRY GOODS.

Measured by valuation of sales, the Dry Goods trade of Cincinnati in 1898 made little advance over the preceding year. There was, however, a lower average price of staple products, so that the moderate gain in sales implies an increased volume of goods handled. Eastern prices of manufactures of cotton were lower during the year than previously known by the trade for staples. The average of prices at New York for standard sheetings, drillings, shirtings, prints, and printing cloths was about 14 per cent lower than for 1897, and about 20 per cent below the annual average for five years previous to 1898.

Special returns to the Chamber of Commerce indicate a total of, approximately, \$34,500,000 as representing sales of Dry Goods in this market in 1898. This compares with \$34,350,000 for 1897, and an annual average of \$33,540,000 for five years prior to 1898.

The wholesale Dry Goods merchants of Cincinnati maintain full and superior assortments of goods, which are offered at relatively low prices. This policy has enabled our merchants to maintain a strong position in the competition for meeting the wants of dealers in towns less populous in the Ohio Valley and contiguous territory.

The following indicates approximately the value of yearly sales of Dry Goods by the trade at Cincinnati, according to special returns to the Cincinnati Chamber of Commerce, for the years stated:

1880-81.....	\$24,203,000	1886-87.....	\$27,095,000	1893.....	\$35,575,000
1881-82.....	25,325,000	1887-88.....	28,870,000	1894.....	32,685,000
1882-83.....	27,380,000	1888-89.....	31,335,000	1895.....	33,625,000
1883-84.....	25,025,000	1889-90.....	34,965,000	1896.....	31,475,000
1884-85.....	25,185,000	1890-91.....	36,300,000	1897.....	34,350,000
1885-86.....	25,765,000	1891-92.....	37,450,000	1898.....	34,500,000

BOOTS AND SHOES.

The returns for 1898 covering the local Boot and Shoe industry indicate prosperous operations, there having been an enlarged business in both manufacturing and distribution of goods. The local manufacture of such products continues to enlarge, and is of notable proportions. This business, which in earlier years was confined almost or quite exclusively to women's wear, has more recently widened to include men's wear to a considerable extent.

Special returns to the Cincinnati Chamber of Commerce indicate sales of Boots and Shoes in this market to have been approximately \$15,500,000 for 1898, a gain of about 9½ per cent over the preceding year. The value of the output of local factories was approximately \$11,000,000, compared with \$10,000,000 for 1897, \$7,750,000 for 1896, \$8,500,000 for 1895, \$7,500,000 for 1894, and \$7,250,000 for 1893. The average cost of material the past year was not essentially different from that of the preceding year.

The following compilation shows approximately the value of yearly sales of Boots and Shoes by manufacturers and dealers at Cincinnati, according to special returns to the Chamber of Commerce:

1889-90.....	\$11,027,000	1893.....	\$12,550,000	1896.....	\$11,350,000
1890-91.....	11,735,000	1894.....	11,250,000	1897.....	14,150,000
1891-92.....	13,335,000	1895.....	12,580,000	1898.....	15,500,000

COAL AND COKE.

The Coal received at Cincinnati is almost entirely soft or bituminous, coming mostly from Pittsburgh and Kanawha regions. In late years the West Virginia and Virginia mines have greatly enlarged contributions to the supply, owing to the increased rail movement of the product. This is illustrated in the showing of receipts separately stated, as appearing in the following compilation for a period of ten years, for the Pittsburgh and Kanawha districts and all other supplies:

YEARS.	PITTSBURGH. By River.	KANAWHA. By River.	KANAWHA. By Rail.	TOTAL KANAWHA.	ALL OTHER KINDS.	TOTAL BUSHELS.
1890.....	42,601,000	19,221,000	2,000,000	21,221,000	4,166,000	67,988,000
1891.....	43,254,000	19,115,000	4,500,000	23,615,000	5,477,000	72,346,000
1892.....	42,272,000	19,215,000	9,300,000	28,515,000	6,072,000	76,859,000
1893.....	28,643,000	24,971,000	18,100,000	43,071,000	8,898,000	80,612,000
1894.....	40,157,000	16,398,000	13,300,000	29,698,000	6,808,000	76,458,000
1895.....	26,876,000	15,106,000	18,900,000	34,006,000	9,461,000	70,143,000
1896.....	36,697,000	22,015,000	13,800,000	35,815,000	7,177,000	79,689,000
1897.....	35,041,000	17,942,000	17,600,000	35,542,000	8,179,000	78,762,000
1898.....	41,271,000	19,949,000	15,900,000	35,849,000	6,823,000	88,943,000

Prior to 1891 the rail receipts of Coal at Cincinnati did not reach as great a volume as 5,000,000 bushels in a year, excepting in but one instance.

The foregoing tabulation shows the enlargement of movement of Coal by rail under influences attending the curtailment of river supplies from low-water interferences.

The arrivals of Coal at Cincinnati in 1898 carry the record above any previous year, the gain over 1897 being 5,180,000 bushels, or $6\frac{1}{2}$ per cent. The supply was ample throughout the year, and the average unusually low, in fact the lowest shown by the records.

The aggregate arrivals of Coal for the year were 83,943,000 bushels—3,026,000 tons. Of this quantity only 948,000 bushels represented Anthracite. The total receipts in 1879 were 78,762,000 bushels, and for five years ending with 1897 the annual average was 77,133,000 bushels, compared with which 1898 makes an increase of nearly 9 per cent.

Of the total receipts of Coal for the year 61,316,000 bushels represent arrivals by river, and 22,627,000 bushels by rail, compared with 53,043,000 bushels by river and 25,719,000 bushels by rail in 1897, and 58,842,000 bushels by river and 20,847,000 bushels by rail in 1896. The varying condition of river navigation, as well as interruption from labor disputes, have influence in changing the relation between river and rail receipts.

The shipments of Coal from Cincinnati in 1898 were 14,221,000 bushels, and for five years ending with 1897 the annual average of shipments was 17,760,000 bushels.

The local consumption of Coal at Cincinnati in recent years for all purposes has been about 60,000,000 bushels annually, or moderately in excess of this quantity. Information obtained from dealers indicates some variation in sales relatively for household and steam or factory purposes, the general result indicating that the total is pretty evenly divided as to quantity for these uses. About 6 per cent of the local consumption is for production of gas.

Early in the past year the price of standard lump Coal delivered to consumers within usual distances was \$2.50 per ton of 2,000 pounds. In March this was changed to \$2.25, which prevailed until August, when a further reduction to \$2.00 was made. In October the \$2.25 price was restored, which continued to the close of the year. The average price for the year was \$2.25. For Coal afloat in barges the price during the year ranged at 5@6 cents per bushel for Pittsburgh, the quotation for Kanawha having a range of $4\frac{1}{2}$ @ $5\frac{1}{2}$ cents—averaging 5.66 cents and 4.89 cents per bushel respectively, or \$1.57 and \$1.36 per ton.

The yearly range and average prices of Pittsburgh Coal, afloat and delivered, per bushel, based on weekly records, compare for ten years as shown in the following compilation :

YEARS.	AFLOAT.			DELIVERED.		
	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
1886-87.....	$6\frac{1}{2}$	15	7.55	$9\frac{1}{2}$	16	11.04
1887-88.....	7	18	10.01	$10\frac{1}{2}$	22	13.96
1888-89.....	6	$8\frac{1}{2}$	6.71	9	$11\frac{1}{2}$	9.95
1889-90.....	6	8	6.78	9	$10\frac{1}{2}$	9.69
1890-91.....	$6\frac{1}{2}$	$8\frac{1}{2}$	7.28	10	$10\frac{1}{2}$	10.24
1892.....	$6\frac{1}{2}$	$8\frac{1}{2}$	7.49	9	$12\frac{1}{2}$	10.36
1893.....	$6\frac{1}{2}$	$8\frac{1}{2}$	7.56	9	$19\frac{1}{2}$	11.04
1894.....	$5\frac{1}{2}$	9	6.34	$7\frac{1}{2}$	$10\frac{1}{2}$	9.11
1895.....	$5\frac{1}{2}$	$6\frac{1}{2}$	6.00	$8\frac{1}{2}$	$10\frac{1}{2}$	9.00
1896.....	$5\frac{1}{2}$	6	5.73	$8\frac{1}{2}$	9	8.21
1897.....	$5\frac{1}{2}$	$5\frac{1}{2}$	5.70	$8\frac{1}{2}$	$10\frac{1}{2}$	8.10
1898.....	5	6	5.66	$6\frac{1}{2}$	9	8.05

The bulk of Coal from the Kanawha, Virginia and West Virginia regions sells at the same, or about the same, prices as are obtained for the product from the Pittsburgh district.

The receipts of Coke for the year were 2,888,000 bushels, and the quantity locally manufactured was 3,950,000 bushels, making a total of 6,838,000 bushels, compared with 7,748,000 bushels the preceding year. For city manufacture the average price for the year was 8.03 cents per bushel; of gas-house, 6.73 cents; of Connellsville, \$5.25 per ton.

Statistical exhibits appear on pages 179 to 182, inclusive.

FIG IRON.

Cincinnati merchants have maintained the highest prominence in the Pig Iron trade, in the business of distribution of this product. In the selling of Pig Iron Cincinnati continues to be the center of trade in southern product, and the houses of this city with their branches elsewhere represent the largest selling business in this line in this country. The aggregate of receipts of Pig Iron at Cincinnati and sales by our dealers for shipments otherwise than through this market in 1898 exceeded that of the high record of the preceding year by 20 per cent, representing a total of 1,732,600 tons, compared with 1,445,400 tons in 1897, and an annual average of 1,170,000 for a period of five years prior to 1898. The value of receipts and direct sales in 1898 was \$19,925,000, compared with \$16,625,000 for 1897, and an annual average of \$15,490,000 for five years prior to 1898.

Prices of Pig Iron were quite steady from January to August, inclusive, subsequently advancing 50@75 cents per ton, this improvement applying more specifically to Southern Coke Foundry Iron (No. 2) than to other kinds. The year's range and average prices of Pig Iron were as follows: Southern Coke No. 2 Foundry, \$9.25@10.25 per ton, average \$9.65; Lake Ore Coke No. 2 Foundry, \$10.25@10.75, average \$10.50; Hanging Rock Charcoal No. 1, \$14.00@15.50, average \$14.95. For 1897 the average prices were as follows: Southern Coke No. 2 Foundry \$9.40; Lake Ore Coke No. 2 Foundry, \$10.80; Hanging Rock Charcoal No. 1, \$15.00. These prices are for short tons, 2,000 pounds.

At Philadelphia the average price of Anthracite Foundry Pig Iron in 1898 was \$11.66 per long ton, 2,240 pounds, compared with \$12.10 for 1897, and an annual average of \$13.05 for five years prior to 1898.

In reviewing the iron trade of 1898 a Pittsburgh writer says: "The writings and sayings of no man in the iron trade attract so much attention as do those of ANDREW CARNEGIE. We desire particularly to call attention to two statements made by him on the occasion of a recent dinner tendered him by the Pittsburgh Chamber of Commerce. One of these was that 'Pittsburgh to-day can make and deliver a ton of steel anywhere in the world at as low a cost as it can be made at the point of delivery.' That is a marvelous achievement, and fully explains why we have made such wonderful progress in the development and expansion of foreign trade. The products of Pittsburgh, such as rails, plates, sheet and tin bars, air brakes, hoops and cotton ties, beams and channels, rods, wire and wire

nails, machinery, pipe, and in fact everything we make, are being sent in large quantities to every part of the civilized globe. Tin plate makers in Wales have placed orders for as high as 10,000 to 15,000 tons of bars at a time. Ship-builders in the Clyde have bought plates from us in lots of 5,000 tons and more. Our rails have gone to practically every foreign country where railroads are in use, and we are also furnishing the locomotives, and may soon be sending over the steel cars. The wire rod and wire interests are making large shipments right along, foreign demand for wire at times exceeding the domestic. Our latest achievement in this direction is the capturing of 66,000 tons of plates for the riveted pipe for the Coolgardie order in Australia, against the strongest competition from English and German mills. As showing the unparalleled rapidity with which our foreign trade has grown, we quote Mr. CARNEGIE's second remark on the occasion mentioned, that within a year the Carnegie Steel Company would be sending fully one-third of their entire product of 2,500,000 tons to the other side."

There was great extension of exports of Iron and Steel products in 1897, and the records for 1898 indicate a further gain of 43 per cent in tonnage, and 30 per cent in value of leading products—exclusive of machinery, machines, builders' hardware, tools, pipes, etc. The following tabulation indicates the extent of such exports:

	1898	1897
Wire and Wire Rods, pounds.....	208,769,000	142,373,000
Iron and Steel Plates, pounds.....	70,851,000	20,426,000
Bar Iron, pounds.....	15,846,000	10,065,000
Bar or Rods of Steel, pounds.....	54,197,000	87,733,000
Total, pounds.....	349,663,000	260,597,000
Equal tons, 2,240 pounds.....	156,100	116,300
Pig Iron, tons.....	253,100	262,700
Steel Rails, tons.....	291,000	142,800
Iron Rails, tons.....	10,900	5,400
Structural Iron and Steel, tons.....	34,000	15,100
Scrap Iron and Steel, tons.....	73,900	42,500
Billets, Ingots and Blooms, tons.....	28,600	6,300
Total, tons.....	847,600	591,100
Value.....	\$16,651,000	\$12,700,000
Builders' Hardware, Tools, Nails, Machinery, Machines, Engines, Pipes, etc.....	66,124,000	50,037,000
Total value.....	\$82,775,000	\$62,737,000

The production of Pig Iron in the United States in 1898 largely exceeded any previous year, making a record of 13,187,000 net tons (2,000 pounds), compared with 10,811,000 tons for 1897, and an annual average of 9,297,000 tons for five years prior to 1898. Pennsylvania represents production nearly equal to all other, and Ohio is second in importance. The record for 1898 indicates the output of Pennsylvania to have been 47 per cent of the total for the country; Ohio, 16.8 per cent; Illinois, 11.6 per cent; Alabama, 8.8 per cent; all other, 15.8 per cent.

Statistical data appear on pages 182 to 186, inclusive.

MANUFACTURED IRON AND STEEL.

The receipts of Manufactured Iron and Steel were about the same in quantity as for the preceding year, showing a total of 176,200 tons for 1898, compared with 177,300 tons for 1897, and an annual average of 147,000 tons for five years prior to 1898. The estimated value of such receipts in 1898 is \$7,050,000, compared with \$7,091,000 for 1897, and \$5,081,000 for 1896. Shipments for the year were 147,100 tons, against 138,300 tons for 1897.

Receipts of Nails were 303,800 kegs, compared with 511,300 kegs for 1897, and an annual average of 465,000 kegs for five years prior to 1898. The average price of 12-penny Nails was reduced to \$1.48 per keg, compared with \$1.69 for 1897, \$2.38 for 1896, \$1.63 for 1895, and \$1.20 for 1894. The annual average for five years prior to 1898 was \$1.65 per keg.

Statistical data appear on page 182 ; prices of Nails, page 153.

WHISKY.

There was an increase of over $6\frac{1}{2}$ per cent in production of Distilled Spirits in 1898 for Cincinnati and immediate vicinity, in comparison with 1897, when there was a gain of nearly 10 per cent over the preceding year. These increases, however, have not brought the total up to the volume of production long prevailing in earlier years. For 1898 the total was 9,688,000 gallons, compared with 9,089,000 gallons for 1897, and an annual average of 9,158,000 gallons for five years prior to 1898.

The receipts of Whisky for the year were increased, showing a total of 238,000 barrels, compared with 213,700 barrels for 1897, and an annual average of 284,000 barrels for five years prior to 1898. Shipments for the year were 359,700 barrels, compared with 356,200 barrels for 1897, and an annual average of 407,000 barrels for five years prior to 1898.

The total quantity represented by the production and receipts of Whisky for the year 1898 was 21,115,000 gallons, compared with 19,350,000 gallons for 1897, and an annual average of 22,760,000 gallons for five years prior to 1898. The approximate valuation of the total for 1898 was \$26,194,000.

The quantity of Rectified Spirits produced at Cincinnati in 1898 and immediate vicinity was 9,038,000 gallons, compared with 8,648,000 gallons for 1897, and an annual average of 9,583,000 gallons for five years prior to 1898. In earlier years the production was very much larger.

The basis price of Finished Spirits in this market at the close of 1897 was \$1.19 per proof gallon ; subsequent changes were to \$1.20 in February, \$1.21 and \$1.22 in April, \$1.23 in May, \$1.25 in July, \$1.26 in November, and \$1.27 in December, which was the position at the close of the year. The average for the year was nearly \$1.23 per gallon, compared with \$1.18 $\frac{1}{2}$ for 1897, and an annual average of \$1.19 $\frac{3}{4}$ for five years prior to 1898.

While there was not so much improvement in the Spirit business as the trade hoped for, there have been elements of encouragement. The enormous stocks resulting from excessive production in past years have not been reduced to an

extent satisfactory to dealers, but the general situation is regarded as somewhat improved, which has been promoted by a combination of spirit distilleries, which went into effect on July 1, 1898.

The production of Distilled Spirits in the United States during the fiscal year ending June 30, 1898, was 83,668,000 gallons, compared with 65,573,000 gallons for 1896-97, and an annual average of 92,127,000 gallons for five years prior to 1897-98. The revenue collected from Spirits in 1897-98 was \$92,547,000, against \$82,008,000 for the preceding year.

Statistical exhibits appear on pages 190 to 193, inclusive.

BEER, ALE, ETC.

The local manufacture of Malt Liquors has not varied greatly in quantity for several years. This has long been a prominent interest here. The returns for 1898 indicate a total of 1,317,100 barrels, compared with 1,311,500 barrels in 1897, and an annual average of 1,310,000 barrels for five years prior to 1898. Receipts of Malt Liquors from other localities have been reduced quite decidedly in recent years, the total for 1898 being 15,500 barrels, compared with 16,300 barrels for 1897, and an annual average of 35,200 barrels for five years prior to 1898; for the preceding period of five years the annual average was 59,200 barrels. Shipments in 1898 were 461,200 barrels, compared with 481,000 barrels for 1897, and an annual average of 488,500 barrels for five years prior to 1898.

The indicated consumption of Malt Liquor, chiefly Beer, in this city and immediate vicinity, was approximately 871,400 barrels in 1898, compared with 847,000 barrels in 1897, and an annual average of 856,000 barrels for five years prior to 1898. The indicated local consumption in 1898 was 27,013,000 gallons, or about 50 gallons per capita of the population of Cincinnati and suburbs, representing an expenditure equal to \$20.00 per capita for the year, or an aggregate equal to or exceeding \$10,000,000. Retailers paid out about \$5,300,000 for the quantity disposed of by them during the year.

Prices of Beer were practically uniform at \$5.60 per barrel, until the addition of \$1.00 tax per barrel under the war revenue law, from which time the price was \$6.60 per barrel. The effect of the additional tax was to lessen sales to an extent estimated at about 10 per cent.

The brewing industry commands large investments of capital and a high order of business enterprise. The brewers of Cincinnati have a high reputation for the quality of their product.

Statistical exhibits appear on pages 154 and 194.

CARRIAGE MANUFACTURING.

The Carriage Manufacturing industry, embracing the production of all classes of vehicles, advanced about 10 per cent in value of output in 1898 in comparison with the preceding year. The returns do not reflect uniformity in such results, some concerns falling short of their previous record, while others report 10 to 25 per cent increase. This is an especially prominent industry in Cincinnati, and

the product of our factories is distributed throughout all portions of the country, and by exportation. The improved machinery in use, the high quality of materials, and the skill and taste displayed among manufacturers in this line, have combined to give fame to this market for such goods. It has been especially distinguished for its production of the lighter class of vehicles, which have been offered at prices competing successfully with other markets. The manufacture of bicycles has been introduced into the operations of these factories, in late years, and while the quantity of such products has been increased the decline in prices has precluded an increase in the valuation of such output. The approximate value of local production of vehicles of all classes in 1898 was \$10,500,000, compared with \$9,500,000 for 1897, \$9,000,000 for 1896, \$9,500,000 for 1895, \$9,000,000 for 1894, \$8,000,000 for 1893, and \$11,000,000 for 1892.

FURNITURE, OFFICE FIXTURES, ETC.

In the manufacture of Furniture this city has long been conspicuous, but the industry has not advanced essentially in late years in the main lines of production, there having been sharp competition from other localities. In the feature of some specialties, such as wood mantels, etc., there has been an enlarging business. In the specialty of Office Furniture, including filing cabinets, desks, etc., there has been a decided gain, the product of such lines finding enlarging demand from other localities and foreign markets. The local production of Furniture embraces every description of such furnishings for residences, banks, offices, etc. The average increase in 1898 was about 7 per cent, in comparison with the preceding year. The approximate value of products of local factories was \$7,750,000, compared with \$7,250,000 for 1897, and \$7,000,000 for 1896. Sales of such goods from other sources have been about \$1,250,000 annually in late years. This market turns out large quantities of burial cases, picture frames, and minor articles in great variety, in which wood largely enters.

MANUFACTURING COMPARISONS.

The important revival in Manufacturing enterprise at Cincinnati previously shown for 1897 was followed by further large gains the past year, carrying the total valuation of the output of local factories above any previous record, the increase for the year being about 8 per cent in comparison with the preceding year, and about 15 per cent in comparison with the average annual production for five years prior to 1898.

It is appropriate in this connection to revert to the evidences of growth of Manufacturing interests in comparatively recent years in this city and vicinity. According to investigations of the Chamber of Commerce, the total value of such products for 1870 was approximately \$125,000,000, increasing in 1880 to \$155,000,000. During the next decade the development of such industrial enterprise was very great, the total for 1890 being estimated at \$236,000,000, subsequently advancing until 1892, when, under the high degree of activity of that year, the output was represented by \$255,000,000. This indicated an increase of fully 100

per cent in comparison with the position in 1870 in value, while the gain in quantity was very much greater, under the lessened prices in the later period. The financial disturbances of 1893 reduced the estimate to \$238,000,000 for that year, which was followed by further depression in 1894, for which year the estimate was \$225,000,000. In 1895 there was some revival, and the record was advanced to \$235,000,000. In 1896 a decline occurred, making the total \$225,000,000. For 1897 there was considerable improvement, shared by almost every branch of industry, in some important lines of which there was an advance reaching 15 to 20 and up to 25 per cent, in comparison with the preceding year, the average indicating fully 12 per cent, suggesting a total of \$250,000,000. This gain was not due to higher prices, but to an increased output and distribution—the returns indicating declines more frequently than advances in prices of products. For the year 1898 the activity of manufacturing operations was generally maintained. In some instances there were declines, but in much the larger proportion there were more or less important gains, the general result, as far as can be deduced from the returns to the Chamber of Commerce, indicating an average increase of about 8 per cent in comparison with the preceding year, with a total of \$270,000,000. In the feature of comparative prices the changes were in most cases not important, and the general average appears to have been about the same as for the preceding year. Wages were also without notable change. The year closed with an enlarged number of persons under employment in comparison with twelve months previously.

In the expansion in exports of manufactures to foreign countries in recent years, this city has contributed a good share and is advancing in this particular. The lines of products available for exportation are numerous, and are alluded to with considerable detail elsewhere in this report.

INTERNAL REVENUE.

The collections of the Internal Revenue office at Cincinnati in 1898 were increased about 6 per cent in comparison with the preceding year, and $3\frac{1}{2}$ per cent in comparison with the annual average for five years prior to 1898. In the item of Spirits there was a decrease, while Beer and Tobacco indicated increases, and special stamps under the war revenue law, and enlargement of special taxes, served to swell the aggregate. The total from all sources was \$11,294,000, compared with \$10,676,000 for 1897, and an annual average of \$8,393,000 for five years prior to 1898.

A detailed statement, with comparisons, appears on page 195.

BANK CLEARINGS.

The gain in Clearings of the local banks in 1898 was not as great as for the preceding year, the result indicating $3\frac{1}{2}$ per cent compared with 7 per cent increase in 1897. For the first half of the year there was a decided gain, while a decrease in the comparison is indicated for the last half of the period. This has encouraged the view that perhaps the stamp tax applicable to bank checks had

an influence in curtailing the use of checks in the latter portion of the year, and, therefore, in lowering the record of bank clearings. The aggregate clearings were \$646,154,000, compared with \$626,786,000 for 1897, and an annual average of \$629,940,000 for five years prior to 1898.

The monthly clearings at the Cincinnati Clearing-House, prepared by WILLIAM D. DUBLE, Manager, representing the actual exchanges brought to the Clearing-House, for years indicated, are as follows:

MONTHS.	1898	1897	1896	1895	1894	1893
January	\$67,410,150	\$49,790,300	\$52,806,900	\$60,012,800	\$56,230,600	\$68,700,600
February	48,498,700	44,680,000	43,172,600	47,066,750	47,912,500	61,356,650
March	58,132,800	49,280,750	51,379,450	49,992,450	49,712,800	62,196,600
April	54,767,250	53,102,600	52,669,650	56,634,550	54,159,400	59,143,060
May	55,013,100	52,878,200	49,692,350	57,257,050	55,126,250	59,764,450
June	59,659,400	57,872,500	52,665,050	57,626,850	58,983,650	58,575,960
July	52,842,900	53,232,100	52,944,950	58,742,400	56,657,750	46,811,300
August	49,679,950	46,284,450	40,782,850	48,854,650	53,141,850	32,847,300
September	49,022,400	50,415,200	39,534,100	47,408,050	46,863,850	41,408,550
October	56,958,600	55,491,100	48,260,450	57,516,550	56,160,950	50,619,900
November	53,425,450	54,034,400	47,851,500	55,119,600	55,980,000	50,997,150
December	55,753,650	59,744,600	53,994,400	55,062,350	57,502,000	54,948,600
Totals	\$646,154,350	\$626,786,200	\$585,964,250	\$651,284,050	\$643,441,600	\$642,369,600

BANKING CAPITAL.

The total capital of National and Private Banks, respectively, in the city of Cincinnati, on the first day of January, in years indicated, was as follows:

	1899	1898	1897	1896	1895	1894	1893
Total National Banks.....	\$7,700,000	\$7,900,000	\$8,000,000	\$8,400,000	\$8,400,000	\$9,100,000	\$9,100,000
Total Private Banks.....	715,000	590,000	590,000	590,000	918,000	918,000	818,000
Grand Totals.....	\$8,415,000	\$8,390,000	\$8,590,000	\$8,990,000	\$9,318,000	\$10,018,000	\$9,918,000

The following statement shows the Banking Capital of the cities of Cincinnati, Covington, and Newport, January 1, 1899:

CINCINNATI.		COVINGTON.	
First National Bank.....	\$1,200,000	First National Bank.....	\$300,000
Second National Bank.....	200,000	Farmers and Traders National Bank	300,000
Third National Bank.....	1,200,000	German National Bank.....	350,000
Fourth National Bank.....	500,000	Citizens National Bank.....	200,000
Merchants National Bank.....	600,000		
National Lafayette Bank.....	600,000		
Citizens National Bank.....	1,000,000		
Ohio Valley National Bank.....	700,000		
German National Bank.....	500,000		
Franklin Bank.....	240,000		
Western German Bank.....	200,000		
S. Kuhn & Sons.....	50,000		
Fifth National Bank.....	300,000		
Equitable National Bank.....	250,000		
Atlas National Bank.....	400,000		
Market National Bank.....	250,000		
City Hall Bank.....	100,000		
Northside Bank.....	25,000		
German Brighton Bank.....	100,000		
	\$8,415,000		
		NEWPORT.	
		German National Bank.....	100,000
		Newport National Bank.....	100,000
			\$200,000
		Grand Total.....	\$9,765,000



EXPORTABLE PRODUCTS.

As a result of inquiry by the Chamber of Commerce concerning lines of product being exported, and which can be furnished for such trade by local establishments, it is found that the list is a large one, among which are the following:

Woodworking machinery, for furniture and chair factories, car and railroad shops, and all other varieties.

Machine tools, steam engines, gas and gasoline engines, boilers, steam pumps and power pumping machinery, hot-air pumping engines, shaping machines, drills, tool grinders, etc.

Machinery for laundry purposes, electrical plants, druggists, chemists, bakers, paint manufacturers, sugar mills, cider mills, saw mills, flour and other cereal products, breweries, elevators, etc.

Planing machines, lathes, hangers, iron pulleys, wood split pulleys, washer castings, and metal castings of every description, iron pipe, iron fence, iron and steel fence posts, barbed and plain wire, iron specialties, fire hydrants, hydraulic plug tobacco machinery and kindred supplies, stop valves, valve boxes, tin andterne plate, machinery and metal products generally.

Saddlery, harness, leather goods in great variety, leather belting, oak-tanned sole and harness leather, carriage and furniture leather, bark-tanned sheep leather, etc.

Electrical, hydraulic and other power elevators, steam pipe and boiler coverings, flexible cement roofing, calliopes, stationers hardware and specialties, ice-cream freezers, sausage machinery, sausage casings, peanut

and coffee roasters, galvanized iron cans for artificial ice works, all kinds of black and galvanized steel tank work, etc.

Light vehicles, fine carriages, road wagons, hearses, delivery wagons of all kinds, filing cabinets, office desks, book-cases, sideboards, furniture in variety, hardwood mantels, piano stools, veneers, bicycles, hall racks, etc.

Brass goods of all kinds, including brass bedsteads and furniture; copper ware, varnishes, japans, printing inks, oils and dry colors for printing ink purposes, pharmaceutical products, sal soda, bicarbonate soda, anti-rust paint, paper boxes, knock-down cooperage for beer, wine, whisky, alcohol, etc.

Soaps in full variety, starch, stearic acid, candles, distilled red oil, perfumery, printing, lithography, cigars and cheroots, smoking tobacco, chewing tobacco, etc.

Boots and shoots, clothing, uniforms, army supplies, military goods, lodge supplies, cordage, billiard tables, bungs, decorative pottery, etc.

Pork and beef products, flour and other cereal products, canned goods, starch, bottled whiskies, beer, glycerine, gelatine, vinegar, table sauce, pickles, etc.

Rookwood pottery, and other works of art, and decorative material.

In addition to products of local manufacturing establishments entering into the export business our merchants distribute largely of various lines of merchandise and agricultural products in foreign markets.

RAILROAD TRANSPORTATION INTERESTS.

In a general way, Railroad interests prospered in 1898, through the movement of an enormous tonnage, while rates were upon a low basis. Statistics of earnings, embracing a large proportion of lines in operation, indicate that there was an average increase of about 8 per cent in gross earnings in comparison with the preceding year, and that the actual gain in such receipts was without precedent in any comparison with a preceding year. To some extent the traffic was enlarged by the movement of men and supplies incident to the war with Spain, but apart from this there was a decided increase in the movement of freights and in passen-



ger traffic. It may be noted that the increase shown for 1898 in gross earnings follows the important increase of 6 per cent shown for 1897 in comparison with the preceding year.

In the feature of local matters, it may be mentioned that the work inaugurated in the preceding year by the Pittsburgh, Cincinnati, Chicago and St. Louis Railway Company in remodeling the yards and rebuilding shops, and other terminal improvements at Pendleton was brought to completion within the past year, by which this line is enabled to command greatly improved facilities for the movement of traffic, and materially reduced operating expenses. This company has also established a bulk delivery yard at Front and Broadway for the purpose of handling perishable freight. This yard has a capacity for thirty-five cars, and is provided with well-paved roadways, wagon scales, and all conveniences for handling such business.

The Chesapeake and Ohio Railway enlarged its traffic at this point about 4 per cent in 1898, in comparison with the preceding year, 23 per cent compared with 1896, and 24 per cent in comparison with the annual average for six years prior to 1898. These percentages are based on number of cars received yearly at this point by this line, as reported by the Traffic Manager to the Chamber of Commerce. The movement of coal the past year to this market, from Virginia and West Virginia, was somewhat reduced under the enlarged offerings by river. The movement of Western products to the seaboard at Newport News for export by the steamships operating in connection with this system was considerably enlarged.

The Louisville and Nashville Railroad Company experienced a decided improvement in its business to and from Cincinnati in comparison with the preceding year. In the traffic southward there was a notable increase in the movement of manufactured articles, especially machinery. In the business from the South to and through Cincinnati, there was a large increase in movement of pig iron, fruits, and vegetables. There was some decrease in leaf tobacco, under the short crop of this product. There was considerable improvement in the lumber trade. This line commands excellent local facilities for handling freights in both East End and West End localities in this city.

The several other Railway lines centering at Cincinnati had their share of the enlarged traffic the past year. There were no new features locally calling for mention.

RIVER TRANSPORTATION INTERESTS.

The number of arrivals and departures of steamers on the Ohio River at Cincinnati in 1898 were the largest since 1894, making a gain of 47 per cent compared with the reduced number in 1897. There was a navigable stage of water a larger portion of the year than usual. While there was considerable increase in traffic it was not enlarged to the full extent which the gain in number of steamer arrivals and departures might suggest.

The Louisville and Cincinnati Packet Line and the Cincinnati and Pomeroy Line, while having had a fair amount of business and little interference in navigation, did not have as fully satisfactory results as the service would seem to

merit. The management attributes this partly to unfavorable influence of the Spanish-American war on river traffic.

The Memphis, New Orleans and Cincinnati Packet Line had an increased business and experienced little detention on account of ice or low water, the boats having been enabled to run about ten months of the year—an exceptional proportion of the period. This line affords facilities for movement of freights to southern plantations at low cost, and should encourage a more liberal effort on the part of our merchants to extend trade in that territory.

The Pittsburgh and Cincinnati Packet Line did an increased business from this port, and results were quite satisfactory. The facilities afforded by this line have been recognized by Cincinnati merchants, who have been steadily extending trade in territory thus reached, where heretofore the supplies have more largely been obtained from eastern markets. The favorable results which our wholesale merchants have realized in their efforts in this direction have been so encouraging that a greatly enlarged business is expected for the future.

Steamer arrivals at Cincinnati in 1898 were 1,396, compared with 950 for the preceding year, and an annual average of 1,336 for five years prior to 1898. The number of steamers in service was 25, compared with 27 in 1897. The tonnage of steamers in freight and passenger traffic between this and other ports was 14,677, compared with 15,881 in 1897. Of the 25 steamers in service 7 were built at Cincinnati, 5 at Jeffersonville, 3 at Madison, and 10 at eight other points. There were no losses of Ohio River steamers by fire or other casualty during the year 1898.

The rainfall at Cincinnati in 1898 was 38.97 inches, compared with 43.89 inches in 1897, and an annual average of 35.66 inches for five years prior to 1898. At other points in the Ohio Valley the rainfall was as follows: Pittsburgh, 35.76 inches, against 35.08 for 1897; Louisville, 51 inches, against 43.96 for 1897; Cairo, 48.66, against 44.10 for 1897.

The lowest stage of the Ohio River in 1898 at Cincinnati was 4 feet 5 inches, October 6; the highest, 61 feet 4 inches, March 29; the yearly average, 19 feet 7 inches, compared with 16 feet 5 inches for 1897. The river was not closed by freezing during the year.

The Ohio River is especially attractive for travel for pleasure. The betterment of steamer accommodations, and the attention given to passengers on both up-river and down-river lines, furnish opportunities for enjoyable recreation rarely equaled anywhere, and at comparatively small cost. The picturesqueness and variety of scenery are not surpassed on any waterway in this or any other country.

Elsewhere in this report is detailed information in regard to the work of improving the Ohio River in 1898, under charge of MAJOR WILLIAM H. BIXBY, Corps of Engineers, U. S. A.

Under date April 10, 1899, COLONEL JOHN L. VANCE, President of the Ohio Valley Improvement Association, submitted a report in regard to progress of work for improvement of the Ohio River and tributaries, embracing a list of appropriations for such purposes by the closing session of Congress. COLONEL VANCE says: "I was greatly disappointed in the failure to secure appropriation

for survey to the mouth of the Ohio. The House Committee recognized its importance, but, in view of the pressing demands from all parts of the country, only made provision for survey to the mouth of the Big Miami. There is no reason to doubt that the next Congress will order the completion of this most important part of the work. It will be gratifying to the members of the Association to know that a great majority of the members of Congress, in both Senate and House, heartily favor the active prosecution of the work of improving the Ohio so as to provide six feet of water in the river at low water, and that the tributaries of the great stream will receive careful attention and be provided with liberal appropriations."

The amount of appropriation for the Ohio River was \$375,000, of which \$35,000 was authorized for the purpose of a survey of the Ohio River, from Marietta to the mouth of the Big Miami River, "with a view to the improvement of said river between said points by movable dams and otherwise, so as to provide six feet of water in said river at low water, this survey to include a report upon the location of the necessary dams and the probable cost thereof."

The importance of the Ohio River in commerce is made evident by the extent of the freight moved, which for the calendar year 1897 was 11,265,638 tons, according to the reports of the U. S. Engineers; number of passengers, 1,914,763. For 1896 the freight represented 9,914,435 tons; passengers carried, 1,223,296.

Statistical details relating to river affairs, rainfall, etc., will be found on pages 196 to 201, inclusive, and 203; and of daily stages of the Ohio and tributary rivers, during the year, on pages 210 to 213, inclusive; following which, on pages 214 to 219, inclusive, are exhibits and a summary pertaining to weather conditions.

MARINE WORKS.

The work carried on during 1898 under Congressional appropriations for improving the rivers in this district, continued in charge of MAJOR W. H. BIXBY Corps of Engineers, U. S. A., who was assigned to this station in October, 1897.

The district comprises the Ohio River, from Pittsburg to Cairo, including the movable dam in operation at Davis Island, just below Pittsburg, and the other movable dams begun or projected in that vicinity; the Muskingum River, from Zanesville to the mouth; the Great Kanawha, Little Kanawha, Big Sandy and its two forks, Guyandotte, Elk, Gauley and New rivers. Since May 1, 1899, the Muskingum and other tributary rivers have been transferred to the charge of CAPTAIN H. F. HODGES, U. S. Engineers.

On the work of improving these rivers the building of dams, dikes, and other permanent structures is done under formal contract, except in special cases where labor is employed and the work conducted by this office. The dredging of bars and shoals and the removal of obstructions is done almost entirely by Government vessels. On the Ohio the snagboat "E. A. Woodruff" and the dredges Ohio and Oswego are always fully employed during the whole available season, but owing to the great amount of such work on the Ohio, it has been heretofore frequently found necessary, in order to maintain navigation during low-water seasons, to employ hired plants to assist in such work.

Davis Island Dam.—There was no interruption to the operating of this work during the year, either on account of ice or low water.

As the object of this, as well as other movable dams projected on the Ohio, is to secure a channel depth of 6 feet, the dam is only put up when the river falls to about that stage. The record shows that during 1898 the dam was up only 123 days, whereas in 1897 it was up 146 days, indicating a considerable prevalence of high water in 1898 over that of the previous year. Due to the usual facility thus afforded for shipments, especially of coal, there was a large increase in the tonnage transported, that for the year 1898 being 3,588,820, as against 2,508,890 in 1897. This large increase must be attributed mainly to the abundance of water throughout the year, giving ample depth and width of channel and easy and safe navigation, and may fairly serve to illustrate the benefit to be derived by all commercial interests from the extension of the system of movable dams, like that at Davis Island, over at least the upper section of the river.

The river commerce passing Davis Island Dam is shown in detail below:

VESSELS.	Ascending.	Descending.	VESSELS.	Ascending.	Descending.
Steamboats.....	346	356	Coal Barges.....	2,984	3,567
Towboats.....	1,289	1,335	Flats.....	1,340	1,645
Model Barges.....	27	42	Rafts.....	2	25
Coal Boats.....	582	1,560	Miscellaneous Craft.....	149	147

Work on the movable dams below Davis Island was much retarded during 1898 by high water and rains. At Dam No. 6, known as Beaver Dam, the lock was practically finished in 1896, and the work in hand was the completion of the Chanoine dam, which was begun in 1897 under contract, but owing to the failure of the contractor, it became necessary for the Government to assume control. Under this plan preparations were commenced in April for resuming work by renewing about 300 feet of the cofferdam, which had been damaged by ice during the winter, and by the purchase of materials, laying tracks, erecting derricks, etc. Active operations were delayed by high water until June; by October the permanent work within the inclosure was sufficiently advanced to permit the dismantling of 416 feet of the cofferdam across the main river, giving an ample open-river channel for the passage of coal fleets. By placing a wing of 427 feet, the remainder of the cofferdam was preserved to be utilized in completing the dam, and also for work proposed for 1899, consisting of the weirs, etc., between the dam and the left shore.

On the movable dams between Davis Island and Beaver work under contract was continued through the seasons on Locks Nos. 2 and 4. At Nos. 3 and 5 work was delayed, pending the acquisition of land. All operations on these dams were suspended in December by severe weather.

The movable dams at Davis Island and Beaver, as well as the four dams between, are in charge of Mr. WILLIAM MARTIN, Resident Engineer, Bellevue, Pa.

During 1898 maps were platted of the survey of the Ohio River from Marietta to Pittsburgh, made in 1896-7 under direction of Mr. R. R. JONES, Assistant Engineer, and a report furnished in December for transmittal to Congress. This survey

was ordered in 1896, to ascertain the number, location, etc., of movable dams necessary to secure a six-foot navigation at low water. The report provided for twelve locks and dams at an estimated cost of \$850,000 each, or \$10,200,000 in all. The report also recommends that the first dam to be constructed be that just below Marietta, numbered 18, and next, that just below Wheeling, numbered 13.

NOTE.—The River and Harbor Act of March 3, 1899, appropriated \$50,000 for each of these dams, to be expended in surveys, purchase of sites, and commencement of work.

A large amount of time and labor during 1898 was devoted to the matter of harbor lines at Pittsburgh, Wheeling and Cincinnati. This work included, also, an extensive survey and the establishment of harbor lines along the river in the vicinity of Ironton, O., made necessary by the great number of mills, and the amount of dumpage practiced here, as elsewhere in such manufacturing districts. This subject has, in recent years, become one of the greatest importance to river interests on account of the unrestricted dumpage of every kind of refuse over the banks of the river, and the erection of piers, tipples, tracks, and other structures, both resulting in narrowing or diverting the channel to its serious detriment. In order to carry out and enforce the laws regarding such encroachments, special surveys have been made along the harbors of the cities named, and other means employed for ascertaining the offending parties—notice being served in each case with full information as to the law and the penalties incurred. At Cincinnati upward of forty such notices were issued.

Operations by the U. S. dredges Ohio and Oswego, under charge of Mr. E. J. CARPENTER, were resumed in August and continued, with some interruption by high water, until the end of the year.

About two weeks' work was done in widening the channel at Cullum's Bar, just below Cincinnati, about 12,000 cubic yards of gravel and sand being removed.

Low water in September compelled the dredges to go to the lower river, and the principal dredging operations of the season were at Mound City and Brooklyn Harbor, Ill., for improving the harbor and the neighboring channels, the total material excavated at these places being 48,000 and 16,000 cubic yards, respectively.

The U. S. snagboat "E. A. Woodruff," under command of CAPTAIN W. H. CHRISTIAN, was prevented this season from her regular work of removing obstructions, being on the ways of the Cincinnati Marine Railway Company, the contractors for replating the hull. Several periods of high water seriously delayed the work, which was not finished until November 30.

The boat was immediately sent out to remove the worst obstruction, and during November went over the river to Brown's Island, sixty miles below Pittsburgh, and thence down to Louisville and back to Cincinnati, and soon after was placed in winter quarters. On the above trip thirty snags, four coal barge wrecks and a sunken wharfboat at New Richmond were removed.

A number of wrecks at various points so seriously obstructed the channel that the work could not wait until the snagboat was available; they were, therefore, removed by hired steamboats and the use of explosives. These wrecks were mostly sunken coal barges in the vicinity of Pittsburgh, and several old steamboats, wrecks, and snags near Mount Vernon, Evansville, and Troy, Ind., and at Hurricane Island.

On the Muskingum River, between Zanesville and Marietta, a distance of eighty-seven miles, there are ten locks and dams constructed by the State and transferred to the Government in 1887, but all were in a badly decayed and unserviceable condition. Since that time four of the locks, six of the dams, and five of the abutments have been wholly rebuilt, and five locks generally reconstructed. Repairs of less magnitude were made on other portions of the work, and are still constantly necessary to maintain navigation and prevent permanent damage. The usual amount of such repair was greatly increased during 1898 by a freshet in March, which exceeded all previous records and caused more or less damage to all the bridges spanning the river by the great quantities of heavy drift, and which filled the locks and canals with debris. All the embankments and canal banks were injured, but no serious damage was done to the Government structures.

Navigation was prevented by this freshet from March 23 to 27, and the river was closed by ice from January 1 to 5.

No new structures were built during the year, but in November a deed was executed by the State, conveying to the United States the land at Marietta required for a lockkeeper's dwelling, for which bids will be invited at an early date.

The commercial statistics for the year are given below, from which it appears that an average of 960 vessels, including miscellaneous craft, was passed through each of the locks.

The work is in charge of Mr. EDMUND MOESER, Resident Engineer, Zanesville, O.

VESSLS, ETC.	Ascending.	Descending.	VESSLS, ETC.	Ascending.	Descending.
Steamboats.....	3,921	4,212	Merchandise, tons.....	60,692	72,773
Barges and Flats.....	357	373	Lumber and timber, ft. B. M.	5,410,000	5,611,000
Rafts.....	149	34	Coal, tons.....	8,284	2,927
Miscellaneous Craft.....	261	302	Passengers.....	129,975	136,963

Great Kanawha River.—The system inaugurated in 1895 for the improvement of this stream provided for extending the six-foot slack-water navigation for a distance of about ninety-six miles up-stream, from the mouth at Point Pleasant, by the construction of locks and dams. This work was practically finished in 1898 by the completion of the contracts for Dams Nos. 9, 10 and 11 (the latter just above Point Pleasant), Nos. 9 and 10 being put in operation in July, and No. 11 in October.

The completion of these contracts makes ten locks and dams on the river—one dam being omitted as unnecessary. Two of the locks have fixed dams and eight have movable dams.

The plan of improvement also embraces dredging of the channels where required, and this work, as also the removal of obstructions, both done by the Government boats, is necessarily continued from year to year. In addition to the above, boats and chain for the new dams were furnished under contract, surveys made for future dredging, and minor repairs made to the general structures.

The final completion of the slack-water system provided by the Government on this stream must prove of the greatest benefit in developing and putting on

the market the abundant mineral resources of the Kanawha Valley, and will doubtless be followed by a very large increase in the commerce transported.

The Kanawha River and its tributaries are in local charge of Mr. A. M. Scott, Resident Engineer, Charleston, W. Va. On the three tributaries—the Elk, Gauley and New rivers—work has been recently almost entirely suspended, owing to the lack of available funds or other causes.

On the Little Kanawha operations were limited to the usual repair and care of Lock and Dam No. 5, at Burning Springs, and to the removal of obstructions, on which a party was engaged for about two months in the summer.

The Big Sandy River and its two forks, the Tug and Levisa, and the Guyandotte River, are in charge of Mr. F. B. Thomas, Resident Engineer, Louisa, Ky.

On the Big Sandy the lock and dam at Louisa, which extends slack-water about twelve miles up the two forks, has only been in operation since January 1, 1897. Experience has shown that some modification in details would be advantageous, and this work has been continued when practicable through the season. Additional work was also done on the abutment of the dam, and some obstructions removed from the channel.

No work of consequence was done on the Guyandotte, owing to the limited funds available.

LIGHTHOUSE SERVICE.

The Fourteenth Lighthouse District includes the Ohio, Great Kanawha, and Tennessee rivers, about 1,300 miles. COMMANDER GEORGE A. BICKNELL, U. S. N., was the Inspector-in-charge until April 14, 1898, when MAJOR W. H. BIXBY, Corps of Engineers, U. S. A., took charge, continuing the same until March 13, 1899, when relieved by COMMANDER C. T. FORSE, U. S. N.

Four new lights have been established, making the number of lights in the district, December 31, 1898, 548, distributed thus: Ohio River, 471; Great Kanawha, 34; Tennessee, 43. Seven changes of locations of lights were made, and these on request of the majority of the pilots interested. The appropriation does not yet warrant so complete a lighting of the district as is desired.

About two months of the work of the tender "Golden Rod" was given to cutting out trees and undergrowth, which had obstructed or interfered with the visibility of the lights.

WEATHER BUREAU SERVICE.

Through the courtesy of the Weather Bureau of the United States Department of Agriculture, the Chamber of Commerce has continued to receive important information, daily, and the reports posted on the bulletin boards and weather map on 'Change have been largely consulted by members. The local office of this service has remained in charge of Mr. S. S. BASSLER, who has been thoroughly devoted in his efforts and ever ready to respond to any call for information possessed by his office. The Weather Map on 'Change, and the daily comparisons of river stages covering the period of a week, have been fully appreciated by river transportation and coal trade interests and others.

A full Weather Summary for the year, from Mr. BASSLER's office, together with complete tabular exhibits of Meteorological matters, prepared especially for this report, will be found on pages 214 to 219, inclusive.

THE NATIONAL BOARD OF TRADE.

The twenty-ninth annual meeting of the National Board of Trade was held at Washington, on Tuesday, Wednesday and Thursday, December 13, 14 and 15, 1898. The Cincinnati Chamber of Commerce, entitled to eight delegates, was represented by the presence of five, as follows: J. F. ELLISON, WILLIAM V. EBERSOLE, WILLIAM N. HOBART, CHARLES B. MURRAY and E. P. WILSON.

The list of subjects submitted for consideration of the meeting embraced the following from the Cincinnati Chamber of Commerce: National Freight Classification; Monetary Unit; War Revenue Law; Reduction of Tax on Spirits; American Interoceanic Canal; Reciprocal Trade Relations; Inland Waterways; Protection of Forests; Local Letter Mail Rate; International Parcels Post and Postage Stamps; A National Board of Health.

STATISTICAL EXHIBITS
OF THE
CINCINNATI CHAMBER OF COMMERCE
AND
MERCHANTS' EXCHANGE,
FOR THE YEAR 1898,
WITH COMPARISONS.

RECEIPTS AT CINCINNATI.

Receipts of Principal Commodities, for six calendar years, as indicated, according to records of the Chamber of Commerce:

ARTICLES.	1896	1897	1898	1899	1900	1901
Ale, Beer and Porter, bbls.	15,501	16,356	20,507	27,787	47,900	63,224
Apples, Green, bbls.	283,619	385,409	484,013	244,585	289,299	223,263
Bacon (see Hog Product).						
Bagging, pieces	3,597	2,180	1,811	585	2,315	1,266
Bananas, cars	858	1,007	789	951	1,108	994
Bark, Tanners', cords	115,000	115,000	29,000	118,000	118,000	125,000
Barley, bush	11,116,549	11,092,828	11,275,340	11,065,862	11,310,447	11,381,220
Beans, bush	200,714	171,410	94,576	145,890	132,668	127,156
Beef, lbs.	260,500	228,870	71,140	228,690	855,490	481,240
Boots and Shoes, cases	248,175	221,756	212,298	210,668	229,440	279,044
Bran, Middlings, etc., tons	15,510	18,260	25,819	16,340	22,994	17,935
Broom Corn, lbs.	1,176,280	1,146,073	1,277,910	1,467,606	1,561,487	1,691,147
Butter, tubs, firkins, etc.	188,549	127,147	135,594	122,383	90,711	81,143
Butterine, lbs.	2,333,569	2,085,108	2,222,252	2,004,995	2,417,606	2,601,294
Candles, boxes	14,801	8,702	7,660	10,408	9,051	7,559
Castings, tons	138,550	107,006	105,486	130,678	123,079	123,243
Cattle, head	193,081	209,091	207,986	206,890	212,613	227,003
Cement and Plaster, bbls	257,525	281,806	298,887	344,738	331,345	357,554
Cheese, boxes	102,558	137,258	144,451	158,214	118,289	125,476
Cider, bbls.	3,063	8,482	5,080	2,644	3,753	4,204
Coal, bush	188,942,955	178,762,026	179,689,109	170,148,141	176,458,115	180,612,025
Coffee, bags	358,269	346,932	278,874	242,850	215,808	249,859
Coke, bush	12,887,916	13,288,620	12,536,270	12,353,333	12,859,420	13,189,152
Cooperage, pieces	973,853	1,023,195	808,687	965,858	1,156,656	843,835
Corn, bush	115,121,379	115,901,253	113,498,428	108,892,763	110,744,781	117,077,860
Corn Meal, bbls.	68,319	94,701	52,926	11,965	7,069	9,621
Cotton, bales	312,709	249,682	295,410	272,368	347,517	221,628
Crockery, pkgs.	97,519	75,706	79,405	90,143	79,319	85,484
Eggs, cases, etc.	306,423	339,457	361,265	287,494	321,011	318,881
Feathers, lbs.	1,128,542	1,106,561	944,166	1,000,922	783,510	595,774
Fish, bbls	64,069	59,957	55,448	65,230	65,435	64,353
Fish, kegs and kits	27,446	16,753	23,094	25,157	33,247	54,433
Flour, bbls.	2,318,410	1,984,822	1,964,843	1,892,545	1,475,345	1,879,586
Fruit, Dried, lbs.	4,341,041	5,686,044	5,708,311	9,266,633	6,897,068	8,340,962
Fruit, Green, tons	16,775	16,541	15,872	14,543	13,214	13,214
Glass, Window, etc., boxes	197,066	152,358	155,696	166,739	163,295	151,764
Glassware, pkgs.	660,553	626,914	632,696	496,849	443,501	445,541
Grease, tierces	56,232	49,417	53,585	84,950	28,534	12,807
Hardware, pkgs.	195,983	175,975	185,901	188,815	173,424	181,557
Hay, tons	1135,013	1110,545	176,784	199,234	198,090	1100,402
Hemp, bales, etc.	14,882	11,572	9,837	7,485	10,090	13,109
Hides, number	568,964	464,418	412,174	508,726	437,040	545,575
Hog Product—Bacon, lbs.	8,989,225	8,107,081	7,130,618	7,242,209	4,583,200	4,450,320
D. S. Meats, loose, lbs.	106,317,704	84,419,192	74,847,596	72,178,964	47,543,970	42,500,900
D. S. Meats, in boxes, lbs.	5,737,500	4,728,500	1,991,500	4,715,000	8,282,500	5,446,000
Hams, lbs.	10,607,747	11,747,161	10,936,845	9,981,186	9,727,430	5,875,670
Lard, lbs.	50,138,670	59,248,050	54,962,260	29,825,660	34,251,870	15,625,710
Pork, bbls	7,584	6,367	8,123	6,439	6,672	6,956
Hogs, head	1,088,195	1,018,134	1,111,633	952,246	916,117	1,032,875
Hops, bales	20,145	7,833	18,668	13,591	23,748	18,343
Horses, head	23,621	14,117	115,187	118,432	117,851	121,767
Ice, tons	140,000	140,000	150,000	150,000	125,000	100,000
Iron and Steel, tons	176,249	177,291	127,028	174,194	121,229	134,029
Iron and Steel, Scrap, tons	41,823	30,574	40,613	51,966	36,238	40,109
Iron, Plg, tons	11,782,630	11,445,446	11,237,740	11,285,936	1985,570	1945,050
Lard (see Hog Product)						
Lead, Plg, lbs	27,206,267	46,046,002	61,122,405	41,632,171	41,132,456	59,298,321
Leather, bundles	152,326	101,882	97,245	86,849	78,994	66,170
Lemons, boxes	42,072	68,230	68,895	56,339	71,955	71,438
Lime, bbls.	244,385	212,907	227,341	240,160	182,198	173,592
Liquors, hhds and pipes	1,555	1,700	1,710	1,878	1,990	1,736
Lumber, cars	40,110	32,660	30,993	36,475	29,347	35,314
Malt, bush	739,103	813,431	674,782	712,946	547,888	708,297
Melons, Water, cars	1,702	1,407	1,362	2,675	2,828	3,201
Merchandise, sundry, tons	1,016,613	889,615	897,054	1,008,663	906,968	1,022,408
Molasses, bbls	57,333	40,837	40,028	47,337	58,571	46,016

RECEIPTS AT CINCINNATI—Continued.

ARTICLES.	1896	1897	1898	1899	1900	1901
Nails, kegs.....	308,840	511,321	396,970	422,490	484,681	511,258
Oakum, bales.....	2,514	1,196	2,158	2,951	3,158	9,884
Oats, bush.....	\$6,217,382	\$7,627,982	\$4,681,513	\$5,418,662	\$4,479,487	\$5,428,247
Oil, bbls.....	290,200	208,964	193,306	269,636	200,808	152,954
Onions, bbls. and sacks.....	120,566	77,457	70,640	65,302	65,906	78,765
Oranges, boxes.....	138,304	108,650	99,839	157,682	664,893	526,430
Peanuts, bush.....	310,718	468,069	444,309	436,798	309,301	342,114
Petroleum, bbls.....	†1,642,494	†1,116,594	†1,149,572	†1,180,688	†1,753,783	†1,808,447
Pitch, bbls.....	860	683	1,449	556	1,040	2,154
Pork (see Hog Product).....						
Potatoes, bbls.....	750,887	794,478	601,896	843,712	573,067	620,018
Raisins, boxes.....	209,972	92,895	136,132	236,825	158,343	98,349
Rice, bbls.....	39,514	28,099	32,320	46,280	35,104	57,805
Rope, Twine, etc., pkgs.....	157,927	128,874	108,945	181,708	138,340	151,720
Rosin, bbls.....	185,485	109,362	98,495	106,864	90,587	60,112
Eye, bush.....	372,577	567,483	361,639	433,458	417,117	484,979
Salt, bbls.....	†525,017	†756,398	†587,119	†670,675	†449,845	†462,588
Seed—Flax, bush.....	1,589	1,856	1,682	2,913	998	40,197
Clover, Timothy, etc., bags.....	165,624	151,067	147,109	126,563	148,136	118,218
Sheep, head.....	412,063	450,217	494,054	632,482	671,165	686,137
Shot, lbs.....	155,600	92,400	76,100	171,000	887,400	568,800
Soap, boxes.....	132,087	153,817	110,780	137,180	136,954	136,977
Sorghum, bbls.....	5,983	8,509	1,662	4,008	6,258	4,813
Spices, pkgs.....	7,323	5,540	8,047	8,508	8,394	7,885
Starch, boxes.....	645,263	425,289	216,325	123,043	147,562	78,392
Stearine, tierces.....	8,377	4,692	9,087	8,804	8,796	1,377
Sugar, hhds.....	917	1,441	1,829	2,166	1,921	1,806
Sugar, bbls.....	266,951	276,946	250,140	287,500	284,410	248,821
Tallow, tierces.....	†74,949	†48,945	†57,377	†44,851	†50,999	†54,628
Tar, bbls.....	1,835	1,406	2,043	1,476	1,974	2,069
Tea, pkgs.....	9,705	8,420	11,878	16,043	22,012	20,968
Tobacco, Leaf, hhds.....	70,706	99,163	84,223	112,083	129,521	97,646
Tobacco, Leaf, cases and bales.....	84,187	32,566	28,349	30,258	35,663	31,602
Tobacco, Manufactured, pkgs.....	110,469	155,065	139,562	123,327	153,914	167,616
Turpentine, bbls.....	58,297	38,576	27,420	25,085	24,775	16,984
Vegetables, Green, tons.....	27,468	21,683	21,919	19,820	22,877	19,155
Wheat, bush.....	†2,601,482	†2,010,842	†1,483,702	†2,030,682	†2,399,982	†2,084,546
Whisky, bbls.....	238,060	218,767	236,596	245,394	385,160	340,308
Wines and Liquors, bbls.....	23,582	16,640	14,550	19,283	22,082	22,426
Wines and Liquors, cases and packages.....	103,624	64,245	53,052	68,122	83,083	88,229
Wood, cords.....	25,000	25,000	25,000	26,000	26,000	26,000
Wool, bales.....	16,884	45,614	22,746	26,382	52,315	55,483
Yarns, Warps, etc., Cotton, pkgs.....	37,095	37,012	38,915	32,811	39,786	38,259

† Including also sales made where the article was shipped directly from the place of manufacture or storage without stopping at Cincinnati.

‡ Supplemental reports included.

§ Estimated.

** Estimated. Including all ice sold for the Cincinnati market.

SHIPMENTS FROM CINCINNATI.

Shipments of Principal Commodities, for six calendar years, as indicated, according to records of the Chamber of Commerce:

ARTICLES.	1896	1897	1898	1895	1894	1893
Alcohol, bbls.	1,858	1,755	868	1,381	5,198	2,575
Ale, Beer and Porter, bbls.	461,226	481,003	498,966	490,291	456,756	520,574
Apples, Green, bbls.	103,284	202,185	219,029	155,231	92,898	130,545
Bacon (see Hog Product)						
Bagging, pieces.	2,265	856	1,029	461	2,191	2,051
Bananas, cars.	303	422	195	219	254	187
Barley, bush.	85,551	73,720	6,261	28,255	20,161	92,404
Beans, bush.	140,985	104,708	57,068	79,864	78,802	95,723
Beef, lbs.	1,177,000	1,238,699	1,289,890	1,519,400	1,858,380	1,907,891
Boots and Shoes, cases.	189,245	187,933	184,571	186,816	204,284	256,713
Bran, Middlings, etc., tons.	9,066	15,394	19,189	9,540	15,976	11,176
Brooms, dozens.	449,187	451,766	460,000	460,000	460,000	460,000
Broom Corn, lbs.	442,988	442,988	622,524	450,179	855,867	800,001
Butter, tubs, firkins, etc.	27,320	28,080	28,992	21,066	15,065	9,556
Butterine, lbs.	615,655	965,482	1,661,745	477,771	650,953	545,897
Candles, boxes.	1187,193	1125,470	1128,002	1130,548	1142,273	1168,105
Castings, tons.	197,455	168,994	178,168	184,046	178,232	190,633
Cattle, head.	62,510	71,424	77,087	72,001	81,442	97,567
Cement and Plaster, bbls.	81,715	90,550	71,884	78,534	93,748	172,596
Cheese, boxes.	56,830	89,980	95,048	95,008	67,681	75,627
Cider, bbls.	1,972	2,259	2,880	1,667	2,939	4,010
Coal, bush.	114,220,879	119,178,056	114,984,324	118,795,825	117,029,297	118,867,682
Coffee, bags.	281,285	266,923	217,589	176,530	160,067	175,260
Coke, bush.	12,571,000	13,854,000	11,869,000	1704,000	11,038,000	11,510,000
Cooperage, pieces.	1906,164	1927,324	1764,806	1850,870	11,088,511	1781,822
Corn, bush.	12,343,588	13,016,832	10,838,897	5,710,115	7,316,840	3,825,555
Corn Meal, bbls.	75,746	101,605	60,746	18,910	21,559	25,909
Cotton, bales.	288,741	240,604	286,820	258,952	334,137	207,406
Crockery, pkgs.	90,881	69,786	75,869	77,446	75,622	88,122
Eggs, cases.	139,275	176,409	176,448	92,834	161,237	165,328
Feathers, lbs.	938,454	1,096,149	927,656	1,065,979	694,788	683,905
Fish, bbls.	14,622	16,897	17,252	23,447	22,438	28,833
Fish, kegs and kits.	86,234	88,148	33,658	38,039	61,426	61,426
Flour, bbls.	11,917,909	11,592,295	11,583,203	11,604,858	11,069,065	11,435,863
Fruit, Dried, lbs.	3,455,200	3,618,571	4,867,904	6,747,802	4,308,096	2,522,453
Fruit, Green, tons.	9,718	6,970	7,616	6,616	3,750	4,523
Furniture, pkgs.	180,666	184,727	160,294	127,552	159,710	205,864
Glass, Window, etc., boxes.	78,250	70,512	79,540	87,212	77,027	89,203
Glassware, pkgs.	316,506	322,176	299,221	189,585	219,275	290,382
Grease, tierces.	28,940	13,032	20,431	15,709	15,886	10,753
Hardware, pkgs.	193,939	151,836	167,805	168,500	164,109	198,631
Hay, tons.	93,193	58,848	19,728	41,679	35,594	44,538
Hemp, bales.	11,569	9,374	7,635	6,068	6,068	9,689
Hides, number.	441,269	851,601	844,668	428,120	351,533	442,653
Hog Product—Bacon, lbs.	19,249,094	16,078,890	14,159,414	12,351,590	9,951,990	11,902,410
D. S. Meats, loose, lbs.	108,107,523	88,702,302	76,067,621	75,754,019	49,949,450	41,581,805
D. S. Meats, in boxes, lbs.	8,085,200	5,988,500	5,424,000	5,689,500	7,522,500	4,665,500
Hams, lbs.	18,969,561	16,149,880	15,868,905	13,557,930	13,107,200	10,102,806
Lard, lbs.	65,952,250	75,568,590	78,058,310	45,475,790	47,721,590	25,169,865
Pork, bbls.	7,820	6,426	7,726	5,801	5,417	5,990
Hogs, head.	332,909	298,043	496,745	383,500	368,603	611,808
Hops, bales.	10,399	4,576	12,148	8,199	8,471	8,068
Horses, head.	120,855	112,404	112,457	118,618	118,315	116,238
Iron and Steel, tons.	147,110	135,342	97,486	127,174	89,123	109,868
Iron and Steel, Scrap, tons.	94,551	29,176	32,511	83,798	25,827	43,613
Iron, Pig, tons.	11,613,036	11,344,843	11,170,583	11,171,398	10,811,222	10,485,318
Lard (see Hog Product)						
Lead, Pig, lbs.	4,662,982	22,376,869	36,416,494	17,160,276	17,780,866	35,907,273
Lead, White, lbs.	20,698,569	20,964,803	16,225,785	17,333,454	16,433,542	14,891,939
Leather, bundles.	118,445	85,813	86,450	71,775	73,331	74,378
Lemons, boxes.	19,691	30,546	27,770	26,002	30,823	24,589
Lime, bbls.	82,172	35,809	33,848	43,265	42,709	66,983
Lumber, cars.	80,665	24,721	23,308	25,661	20,019	24,946
Malt, bush.	717,284	568,959	509,355	463,916	469,869	433,352
Manufactures, sundry, pieces.	254,211	199,847	168,068	151,803	134,309	180,156
Melons, Water, cars.	1,247	992	1,060	2,091	2,059	2,489

SHIPMENTS FROM CINCINNATI—Continued.

ARTICLES.	1886	1887	1888	1889	1890	1891
Merchandise, sundry, tons.....	778,829	661,476	618,652	591,559	567,519	687,983
Molasses, bbls.....	42,135	32,700	26,062	35,671	44,121	49,778
Nails, kegs.....	818,841	484,888	320,280	381,435	481,074	477,926
Oats, bush.....	4,280,471	5,687,110	2,490,656	2,987,696	2,159,724	2,918,737
Oil, bbls.....	270,393	146,273	149,283	218,625	140,267	109,780
Onions, bbls. and sacks.....	80,082	50,794	48,963	43,184	51,396	57,887
Oranges, boxes.....	56,208	50,122	43,236	92,451	506,080	392,852
Peanuts, bush.....	268,098	254,399	200,507	296,523	254,421	323,136
Petroleum, bbls.....	†1,367,225	†893,300	†926,006	†936,303	†1,529,532	†1,622,216
Pork (see Hog Product).....						
Potatoes, bbls.....	259,391	319,525	307,018	373,248	250,881	294,674
Rice, bbls.....	22,596	10,789	18,008	21,281	21,529	33,687
Rope, Twine, etc., pkgs.....	119,545	71,922	76,004	109,550	112,272	193,632
Rosin, bbls.....	75,929	58,367	49,543	47,141	33,406	28,186
Rye, bush.....	115,837	264,769	142,326	178,896	153,077	219,218
Salt, bbls.....	†424,404	†547,786	†441,873	†529,563	†338,270	†361,540
Seed—Flax, bush.....		441	555	1,546	824	88,586
Clover, Timothy, etc., bags.....	107,770	118,248	124,229	111,360	123,989	112,406
Sheep, head.....	320,189	341,729	341,281	426,605	487,884	545,793
Shot, lbs.....	1,067,700	763,000	143,960	1,268,200	2,279,500	2,678,200
Soap, boxes.....	†1,572,797	†1,546,376	†1,428,757	†1,287,321	†1,266,133	†1,063,153
Sorghum, bbls.....	4,106	2,255	767	1,677	3,868	5,081
Spices, pkgs.....	6,096	8,025	5,091	4,496	6,501	7,299
Starch, boxes.....	†1,126,125	†881,982	†707,902	†608,544	†594,733	†470,264
Stearine, tierces.....	8,910	6,813	8,405	7,991	6,470	2,973
Sugar, hhd's.....	541	785	1,114	1,146	1,133	1,365
Sugar, bbls.....	126,825	118,060	124,554	143,343	136,248	115,107
Tallow, tierces.....	9,181	2,440	7,028	4,734	4,533	5,110
Tobacco, Leaf, hhd's.....	72,239	89,660	86,678	100,781	121,517	97,472
Tobacco, Leaf, cases and bales.....	9,413	10,004	7,671	10,212	14,822	17,586
Tobacco, Manufactured, pkgs.....	118,115	153,339	148,680	149,948	160,470	170,629
Turpentine, bbls.....	44,698	29,093	19,944	19,485	15,529	13,632
Vegetables, Green, tons.....	9,723	7,312	8,895	5,656	8,973	8,132
Vinegar, bbls.....	21,477	24,199	23,558	23,030	27,666	24,737
Wheat, bush.....	2,223,378	1,561,091	1,093,152	1,647,274	2,062,353	1,786,009
Whisky, bbls.....	†359,733	†356,178	†342,285	†368,100	†505,183	†463,498
Wines and Liquors, bbls.....	11,219	7,354	7,714	7,619	8,621	11,687
Wines and Liquors, cases and packages.....	164,291	135,476	123,939	188,048	155,941	175,256
Wool, bales.....	20,447	47,263	25,145	31,007	51,628	53,361

† Including also sales made in Cincinnati, where goods were shipped directly from the place of manufacture or storage, without stopping at this city.

‡ Supplemental reports included.

§ Estimated.

VALUE OF PRINCIPAL RECEIPTS.

Value of Principal Commodities received at Cincinnati, for five calendar years, as indicated, according to records of the Chamber of Commerce:

ARTICLES.	Total Quantity. 1896	Total Value. 1896	Total Value. 1897	Total Value. 1898	Total Value. 1899	Total Value. 1900
Ale, Beer and Porter, bbls.....	15,501	\$100,756	\$106,314	\$138,296	\$188,394	\$316,140
Apples, Green, bbls.....	233,619	644,788	759,256	781,228	494,062	789,687
Bacon (see Hog Product).....						
Bagging, pieces.....	3,597	16,187	9,180	8,150	2,633	10,418
Bananas, cars.....	868	834,620	327,275	257,615	318,585	326,270
Bark, Tanners', cords.....	\$15,000	\$183,500	\$138,750	\$82,800	\$123,500	\$182,700
Barley, bush.....	11,116,549	491,282	\$893,418	\$459,122	\$575,565	\$746,965
Beans, bush.....	200,714	242,864	159,411	104,084	269,897	238,802
Beef, lbs.....	260,500	25,138	17,015	4,909	17,894	27,728
Boots and Shoes, cases.....	248,175	7,445,250	6,652,680	6,366,790	6,530,553	5,786,000
Bran, Middlings, etc., tons.....	15,510	185,345	183,513	234,953	222,224	309,135
Broom Corn, lbs.....	1,176,280	47,061	45,843	51,116	58,704	63,259
Butter, tubs, firkins, etc.....	188,549	1,156,884	966,317	949,158	979,064	843,148
Butterine, lbs.....	2,833,569	320,866	266,894	277,782	285,712	361,916
Candles, boxes.....	14,801	34,782	20,015	19,916	29,142	26,338
Castings, tons.....	138,550	8,313,000	6,420,380	6,326,160	7,840,699	7,384,740
Cattle, head.....	198,031	6,756,085	6,690,912	6,447,566	7,311,150	6,686,679
Cement and Plaster, bbls.....	257,525	309,080	338,167	358,664	413,686	397,614
Cheese, boxes.....	102,558	446,127	617,061	613,917	689,463	579,616
Cider, bbls.....	3,036	24,288	27,856	40,640	21,152	33,777
Coal, bush.....	\$83,942,955	4,448,977	\$4,489,435	\$4,382,900	\$4,208,588	\$4,909,777
Coffee, bags.....	358,269	3,940,959	5,897,844	6,135,228	6,071,250	5,459,816
Coke, bush.....	\$2,887,916	216,594	\$263,092	\$202,902	\$188,266	\$271,645
Cooperage, pieces.....	973,853	827,775	869,716	667,384	812,479	968,158
Coopers' Stuff.....		\$700,000	\$725,000	\$725,000	\$750,000	\$750,000
Corn, bush.....	\$15,121,379	\$5,065,662	\$4,293,338	\$3,712,066	\$3,646,033	\$4,942,599
Corn Meal, bbls.....	68,319	157,134	213,077	119,084	29,962	17,673
Cotton, bales.....	312,709	8,443,143	8,239,506	10,634,760	8,851,960	11,120,544
Crockery, pkgs.....	97,519	1,462,785	1,135,590	1,197,075	1,352,145	1,189,785
Eggs, cases.....	306,423	1,118,444	1,103,285	1,174,111	1,110,100	1,208,791
Feathers, lbs.....	1,128,542	383,704	387,296	377,666	370,341	256,729
Fish, bbls.....	64,069	1,153,242	959,312	1,016,064	1,108,910	981,525
Fish, kegs and kits.....	27,446	34,308	16,753	23,094	18,867	21,611
Flour, bbls.....	2,318,410	7,534,833	6,450,672	5,160,592	4,731,363	3,024,457
Fruit, Dried, lbs.....	4,341,041	260,462	296,517	256,874	555,968	413,825
Fruit, Green, tons.....	16,775	1,090,375	992,460	952,320	872,580	824,460
Glass, Window, etc., boxes.....	197,066	2,167,726	1,523,580	1,556,960	1,667,390	1,796,245
Glassware, pkgs.....	660,553	1,486,244	1,253,828	1,265,372	993,698	931,352
Grease, tierces.....	56,232	646,668	506,824	589,435	1,189,300	472,238
Hardware, pkgs.....	195,983	4,311,626	3,519,500	3,718,020	3,776,300	3,468,480
Hay, tons.....	\$135,013	1,167,863	\$1,083,341	\$936,765	\$1,260,272	\$1,073,976
Hemp, bales.....	14,882	520,870	347,160	295,110	224,550	302,700
Hides, number.....	568,964	2,987,061	2,159,544	1,860,174	1,813,414	961,488
Hog Product—Bacon, lbs.....	8,939,225	505,066	425,819	331,574	438,154	301,458
D. S. Meats, loose, lbs.....	106,317,704	5,475,362	4,009,912	3,181,028	3,969,568	3,494,482
D. S. Meats, in boxes, lbs.....	5,737,500	309,825	236,425	89,618	271,118	629,470
Hams, lbs.....	10,607,747	928,178	1,162,969	1,126,495	998,119	1,031,108
Lard, lbs.....	50,138,670	2,537,017	2,381,772	2,363,377	1,864,104	2,603,142
Pork, bbls.....	7,584	73,944	53,164	65,390	68,556	86,786
Hogs, head.....	1,088,195	7,617,865	6,617,871	7,781,431	7,856,029	9,023,752
Hops, bales.....	20,145	576,147	171,542	281,887	228,280	688,692
Horses, head.....	23,621	1,653,470	917,606	908,220	\$1,105,920	\$1,071,060
Ice, tons.....	\$140,000	\$400,000	\$300,000	\$450,000	\$450,000	\$400,000
Iron and Steel, tons.....	176,249	7,049,960	7,091,640	5,081,120	6,967,760	4,364,244
Iron and Steel, Scrap, tons.....	41,823	526,970	368,417	513,754	631,387	576,875
Iron, Pig, tons.....	\$1,732,630	\$19,925,245	\$16,622,629	\$15,471,750	\$17,360,136	\$13,846,436
Lard (see Hog Product).....						
Lead, Pig, lbs.....	27,205,267	1,025,638	1,634,633	1,711,427	1,298,924	1,262,766
Leather, bbls.....	152,326	4,874,432	3,260,224	3,000,820	2,963,960	2,341,302
Lemons, boxes.....	42,072	176,702	223,113	238,377	239,441	241,769
Lime, bbls.....	244,345	158,850	138,390	147,798	156,104	118,429
Liquors, hhds. and pipes.....	1,555	155,300	170,000	171,000	187,800	199,000
Lumber, cars.....	40,110	12,033,000	10,777,800	10,397,200	11,590,000	8,978,800
Malt, bush.....	789,103	428,680	382,313	347,513	456,265	384,212
Melons, Water, cars.....	1,702	199,134	147,735	183,870	861,125	852,875
Merchandise, sundry, tons.....	1,016,613	101,661,300	88,961,500	89,705,400	100,866,300	90,696,800

VALUE OF PRINCIPAL RECEIPTS—Continued.

ARTICLES.	Total Quantity. 1898	Total Value. 1898	Total Value. 1897	Total Value. 1896	Total Value. 1895	Total Value. 1894
Molasses, bbls.....	57,338	\$859,995	\$639,099	\$768,588	\$923,664	\$859,815
Nails, kegs.....	308,840	455,760	869,246	942,409	686,659	581,617
Oakum, bales.....	2,514	4,400	4,784	8,362	11,804	12,682
Oats, bush.....	16,217,382	11,740,667	11,678,145	1983,118	11,517,223	11,567,808
Oil, bbls.....	290,200	5,919,100	5,656,870	4,117,397	5,767,960	4,597,458
Onions, bbls. and sacks.....	120,586	241,172	193,643	93,245	101,063	121,926
Oranges, boxes.....	188,304	424,568	400,919	382,363	496,541	1,974,732
Oysters.....	.....	\$235,000	\$235,000	\$235,000	\$245,000	\$275,000
Peanuts, bush.....	810,718	810,718	483,069	533,171	480,472	278,371
Petroleum, bbls.....	†1,642,494	†5,996,108	†6,908,079	†4,448,344	†4,840,821	†6,188,241
Pitch, bbls.....	860	1,935	1,533	3,323	1,390	2,600
Pork (see Hog Product).....	.....	.....	.....	.....	.....	.....
Potatoes, bbls.....	750,887	1,464,230	1,138,433	585,687	1,307,754	1,208,441
Raisins, Figs, etc., boxes.....	208,972	571,124	269,596	258,651	497,338	394,288
Rice, bbls.....	39,514	651,961	346,435	404,000	647,920	561,664
Rope, Twine, etc., pkgs.....	157,927	947,562	743,244	623,670	790,218	530,040
Rosin, bbls.....	185,435	324,511	240,596	216,689	206,841	163,962
Rye, bush.....	372,577	198,740	232,668	126,240	229,733	216,801
Salt, bbls.....	†525,017	†456,765	†684,534	†534,278	†637,141	†440,848
Seed—Flax, bush.....	1,589	1,366	1,355	1,346	3,175	1,162
Clover, Timothy, etc., bags.....	165,624	844,682	944,169	1,029,763	949,223	1,145,088
Sheep, head.....	412,063	1,298,096	1,350,651	1,284,540	1,644,453	1,677,913
Shot, lbs.....	156,600	6,722	4,140	2,968	7,795	86,846
Soap, boxes.....	182,087	561,870	653,722	470,815	617,310	616,238
Sorghum, bbls.....	5,983	64,916	38,569	14,543	43,232	100,048
Spices, pkgs.....	7,323	329,585	249,300	362,115	382,635	377,790
Starch, boxes.....	645,263	677,526	467,818	237,958	141,499	187,404
Stearine, tierces.....	8,377	201,048	89,148	181,740	198,080	94,900
Stone.....	.....	\$600,000	\$625,000	\$625,000	\$645,000	\$645,000
Sugar, hhds.....	917	39,431	60,522	74,939	86,640	76,840
Sugar, bbls.....	266,351	4,938,598	4,154,190	3,551,998	4,384,375	4,323,082
Tallow, tierces.....	174,949	†1,169,204	†702,851	†860,655	†388,713	†1,045,480
Tar, bbls.....	1,535	5,505	4,218	6,129	4,428	5,922
Tar, pkgs.....	9,705	242,025	210,500	296,950	416,075	550,300
Tea, pkgs.....	70,705	10,676,456	9,579,145	7,024,198	12,659,729	15,542,520
Tobacco, Leaf, hhds.....	34,187	1,196,745	1,791,130	1,360,752	1,816,080	2,318,095
Tobacco, Leaf, cases and bales.....	110,469	1,657,035	2,325,973	1,953,868	1,849,905	2,308,710
Tobacco, Manufactured, pkgs.....	58,297	1,008,388	567,067	403,074	324,308	329,508
Tar, pkgs.....	27,468	1,373,400	1,084,150	1,095,950	991,000	1,143,850
Vegetables, Green, tons.....	12,601,382	12,211,400	11,447,806	11,068,265	11,340,250	11,295,990
Whisky, bbls.....	238,080	14,288,000	12,826,020	14,195,780	14,232,852	21,568,960
Wines and Liquors, bbls.....	23,582	1,061,190	748,800	654,750	865,485	991,440
Wines and Liquors, cases and packages.....	108,624	1,243,488	770,940	636,624	817,464	996,396
Wood, cords.....	35,000	330,000	330,000	330,000	336,000	336,000
Wool, bales.....	16,884	842,512	2,230,525	809,758	975,394	2,640,255
Yarn, Warps, etc., Cotton, pkgs.....	37,045	927,375	925,300	847,875	820,275	994,650
Totals.....	.....	\$313,766,996	\$276,482,772	\$270,345,659	\$302,170,630	\$295,749,400

† Including also sales made at Cincinnati, where goods were shipped directly from the place of manufacture or storage, without the same stopping at this city.

‡ Supplemental reports included..

‡ Estimated.

** Estimated. Including all Ice sold for the Cincinnati market.

VALUE OF PRINCIPAL SHIPMENTS.

Value of Principal Commodities shipped from Cincinnati, for five calendar years, as indicated, according to records of the Chamber of Commerce:

ARTICLES.	Total Quantity. 1898	Total Value. 1898	Total Value. 1897	Total Value. 1896	Total Value. 1895	Total Value. 1894
Alcohol, bbls.....	1,858	\$130,060	\$122,850	\$60,760	\$66,670	\$363,510
Ale, Beer and Porter, bbls.....	481,226	2,997,969	3,126,520	3,210,779	3,235,921	3,014,690
Apples, Green, bbls.....	108,284	309,852	494,696	427,110	333,746	314,153
Bacon (see Hog Product).....	.....	.....	.....	.....	.....	.....
Bagging, pieces.....	2,265	10,759	4,062	.....	2,180	10,407
Bananas, cars.....	308	121,200	141,370	67,275	74,460	76,200
Barley, bush.....	35,551	15,998	27,276	2,317	15,540	11,693
Beans, bush.....	140,985	187,510	109,938	68,482	155,434	140,224
Beef, lbs.....	1,177,000	116,523	97,238	92,091	125,350	149,600
Boots and Shoes, cases.....	189,245	8,516,025	8,456,985	8,306,696	8,384,220	8,170,560
Bran, Middlings, etc., tons.....	9,066	113,825	162,407	184,214	184,514	223,664
Brooms, dozens.....	249,187	486,077	485,414	499,000	410,000	410,000
Broom Corn, lbs.....	458,266	20,397	19,934	28,014	20,258	39,864
Butter, tubs, firkins, etc.....	27,320	252,710	241,058	191,936	189,594	156,130
Butterine, lbs.....	615,455	98,887	137,581	218,644	74,055	100,246
Candles, boxes.....	1137,198	1836,123	1301,126	1345,606	1378,589	1426,819
Castings, tons.....	197,455	12,834,575	10,984,610	11,255,920	11,962,990	11,585,090
Cattle, head.....	62,510	2,625,420	2,785,536	2,927,406	3,024,042	3,257,690
Cement and Plaster, bbls.....	81,715	106,230	117,715	92,799	102,094	121,872
Cheese, boxes.....	56,830	261,418	427,168	427,716	454,138	348,557
Cider, bbls.....	1,972	17,748	20,331	25,920	15,008	29,390
Coal, bush.....	114,220,879	1967,020	11,842,114	11,008,067	11,362,661	11,319,771
Coffee, bags.....	261,285	3,516,063	4,938,076	5,010,297	4,589,790	4,201,759
Coke, bush.....	12,571,000	1192,825	1308,320	1109,520	156,320	188,230
Cooperage, pieces.....	1905,164	905,164	927,324	764,806	1350,870	11,088,511
Coopers' Stuff.....	.....	200,000	225,000	225,000	275,000	275,000
Corn, bush.....	12,843,588	4,258,538	3,644,712	2,996,830	2,398,248	3,438,690
Corn Meal, bbls.....	75,746	189,365	243,852	145,790	50,111	57,131
Cotton, bales.....	288,741	7,796,007	7,939,982	10,325,520	8,415,940	10,692,384
Crockery, pkgs.....	90,881	1,408,656	1,081,683	1,175,970	1,200,413	1,172,141
Eggs, cases, etc.....	139,275	543,173	617,432	617,568	406,470	644,948
Feathers, lbs.....	938,454	337,843	405,575	389,616	415,732	257,072
Fish, bbls.....	14,822	321,684	344,337	396,796	515,834	448,760
Fish, kegs and kits.....	36,234	50,728	43,865	29,948	28,609	28,529
Flour, bbls.....	11,917,909	16,424,996	15,834,188	14,274,648	13,387,388	12,288,297
Fruit, Dried, lbs.....	3,455,200	241,864	217,114	218,395	421,738	268,944
Fruit, Green, tons.....	9,718	728,850	487,960	526,120	463,120	262,500
Furniture, pkgs.....	160,666	3,218,320	2,425,068	2,894,212	2,296,986	2,874,780
Glass, Window, etc., boxes.....	78,250	860,750	705,120	795,400	872,120	947,297
Glassware, pkgs.....	316,506	870,391	805,440	723,053	417,067	504,333
Grease, tierces.....	28,940	332,810	133,578	224,741	219,926	262,913
Hardware, pkgs.....	198,989	4,848,475	3,341,492	3,691,710	3,707,000	3,610,398
Hay, tons.....	98,193	852,716	606,134	250,546	550,163	409,331
Hemp, bales, etc.....	11,569	462,760	328,090	267,925	196,060	212,030
Hides, number.....	441,269	2,426,980	1,722,845	1,206,338	1,605,450	843,679
Hog Product—Bacon, lbs.....	19,249,094	1,116,447	867,990	679,652	765,799	674,219
D. S. Meats, loose, lbs.....	108,107,528	5,729,699	4,101,413	3,346,975	4,317,979	3,746,209
D. S. Meats, in boxes, lbs.....	8,085,200	448,728	308,150	252,216	335,681	582,994
Hams, lbs.....	18,969,561	1,754,684	1,679,588	1,726,582	1,423,582	1,474,560
Lard, lbs.....	65,952,250	3,337,184	3,040,325	3,141,507	2,842,237	3,722,284
Pork, bbls.....	7,829	76,333	53,657	62,194	61,780	71,775
Hogs, head.....	382,909	2,680,363	1,904,780	3,407,215	3,163,875	3,598,879
Hops, bales.....	10,399	309,370	165,225	197,405	147,582	262,601
Horses, head.....	20,855	1,564,125	868,280	809,705	1885,170	1865,475
Iron and Steel, tons.....	147,110	6,178,620	5,810,364	4,094,412	5,341,308	3,386,674
Iron and Steel, Scrap, tons.....	34,551	518,265	423,052	487,665	506,970	361,578
Iron, Pig, tons.....	11,613,036	118,549,914	116,622,629	114,631,663	115,813,805	112,302,096
Lard (see Hog Product).....	.....	.....	.....	.....	.....	.....
Lead, Pig, lbs.....	4,662,982	175,794	794,343	1,019,662	535,404	545,873
Lead, White, lbs.....	20,693,569	1,154,701	1,127,906	851,854	939,473	916,992
Leather, bundles.....	118,445	4,027,130	3,019,642	3,285,100	3,014,550	2,566,585
Lemons, boxes.....	19,691	88,610	105,384	99,972	114,409	106,131
Lime, bbls.....	32,172	25,738	26,678	26,678	34,612	34,167
Lumber, cars.....	30,655	9,196,500	7,416,300	7,323,200	8,264,400	7,007,600
Malt, bush.....	717,234	423,168	273,100	264,865	296,906	286,620
Manufactures, sundry, pieces.....	254,211	12,710,550	9,992,350	8,403,400	7,590,150	6,715,450

VALUE OF PRINCIPAL SHIPMENTS—Continued.

ARTICLES.	Total Quantity. 1898	Total Value. 1898	Total Value. 1897	Total Value. 1896	Total Value. 1895	Total Value. 1894
Melons, Water, cars.....	1,247	\$158,369	\$114,080	\$153,700	\$308,195	\$277,965
Merchandise, sundry, tons.....	778,829	116,074,850	99,221,400	92,797,800	88,733,850	85,127,850
Molasses, bbls.....	42,135	684,694	555,900	534,066	677,749	772,118
Nails, kegs.....	318,341	525,263	804,543	800,650	686,673	649,450
Oats, bush.....	4,280,471	1,241,837	1,352,906	572,851	866,402	777,501
Oil, bbls.....	270,393	5,813,449	2,706,051	3,329,011	5,082,931	3,170,034
Onions, bbls. and sacks.....	80,082	180,185	139,684	73,400	73,413	102,796
Oranges, boxes.....	56,203	185,470	195,476	172,944	305,088	1,565,748
Peanuts, bush.....	268,098	335,123	317,999	270,684	370,654	254,421
Petroleum, bbls.....	†1,367,225	†4,990,371	†3,091,550	†3,583,643	†3,838,842	†5,353,362
Pork (see Hog Product).....						
Potatoes, bbls.....	259,391	544,721	543,193	322,369	634,513	564,482
Rice, bbls.....	22,596	395,430	171,824	243,041	319,215	365,993
Rope, Twine, etc., pkgs.....	119,545	836,815	508,454	582,028	766,850	785,904
Rosin, bbls.....	75,929	144,265	140,081	118,903	98,996	66,816
Rye, bush.....	115,837	62,552	118,851	56,507	96,571	81,131
Salt, bbls.....	†424,404	†390,451	†487,530	†424,198	†529,653	†348,418
Seed—Flax, bush.....			866	500	1,778	969
Clover, Timothy, etc., bags.....	107,770	619,678	798,174	981,718	890,880	1,063,482
Sheep, head.....	320,189	1,088,648	1,076,446	988,523	1,173,164	1,292,893
Shot, lbs.....	1,067,700	48,402	35,098	5,758	58,971	102,578
Soap, boxes.....	†1,572,797	†7,863,985	†7,731,880	†7,143,785	†6,436,605	†6,330,665
Sorghum, bbls.....	4,106	46,603	25,033	7,095	18,866	33,822
Spices, pkgs.....	6,096	274,320	136,125	229,095	201,870	292,545
Starch, boxes.....	†1,123,125	†1,295,044	†981,680	†849,482	†760,680	†302,890
Stearine, tierces.....	8,910	213,840	129,447	168,100	179,798	161,750
Stone.....		‡200,000	‡250,000	‡250,000	‡270,000	‡270,000
Sugar, hhds.....	541	24,345	34,540	47,302	48,132	47,586
Sugar, bbls.....	126,825	2,409,675	1,829,080	1,830,944	2,257,662	2,139,094
Tallow, tierces.....	9,181	152,405	37,454	112,448	89,946	95,193
Tobacco, Leaf, hhds.....	72,239	10,908,089	8,661,156	7,228,945	11,388,253	14,582,040
Tobacco, Leaf, cases and bales.....	9,413	329,455	550,220	368,308	612,720	963,430
Tobacco, Manufactured, pkgs.....	118,115	1,771,725	2,300,065	2,081,520	2,249,220	2,407,060
Turpentine, bbls.....	44,698	796,624	436,396	299,160	263,048	213,524
Vegetables, Green, tons.....	9,723	534,765	402,160	489,225	311,080	493,515
Vinegar, bbls.....	21,477	107,385	120,995	117,790	115,150	138,330
Wheat, bush.....	2,223,378	1,912,105	1,132,296	798,001	1,103,673	1,128,794
Whisky, bbls.....	‡359,733	‡1,583,980	‡1,370,680	‡20,537,100	‡21,349,800	‡28,296,248
Wines and Liquors, bbls.....	11,219	538,512	352,992	347,130	342,855	337,945
Wines and Liquors, cases and packages.....	164,291	1,971,492	1,625,712	1,437,368	1,656,576	1,871,292
Wool, bales.....	20,447	1,042,797	2,363,150	917,793	1,178,266	2,065,120
Totals.....		\$329,466,420	\$287,406,568	\$273,604,598	\$278,761,084	\$290,105,173

† Including also sales made at Cincinnati, where goods were shipped directly from the place of manufacture or storage, without the same stopping at this city.

‡ Supplemental reports included.

‡ Estimated.

CINCINNATI TRADE VALUATION COMPARISONS.

Approximate Aggregate Value of Annual Receipts and Shipments of Commodities, respectively, at Cincinnati, for years indicated:

YEARS.	Receipts.	Shipments.	YEARS.	Receipts.	Shipments.
1863-64.....	\$389,790,537	239,079,825	1881-82.....	\$256,606,268	\$294,719,798
1864-65.....	807,552,397	198,790,811	1882-83.....	264,239,878	290,907,330
1865-66.....	862,032,766	201,850,055	1883-84.....	264,118,642	272,157,351
1866-67.....	835,961,233	192,929,317	1884-85.....	247,347,134	253,260,866
1867-68.....	280,063,948	144,262,133	1885-86.....	254,369,127	264,529,918
1868-69.....	283,927,903	163,084,858	1886-87.....	269,964,877	279,260,068
1869-70.....	812,978,665	198,517,690	1887-88.....	281,995,617	287,443,410
1870-71.....	283,796,219	179,848,427	1888-89.....	287,594,295	295,188,485
1871-72.....	317,646,606	200,607,040	1889-90.....	300,711,893	316,419,785
1872-73.....	326,023,064	213,320,768	1890-91.....	326,247,000	332,765,000
1873-74.....	331,777,055	221,536,852	1891-92.....	348,470,000	346,385,000
1874-75.....	311,072,639	201,404,023	1892.....	347,455,000	337,815,000
1875-76.....	294,214,245	190,186,929	1893.....	319,625,000	308,985,000
1876-77.....	260,892,540	191,486,881	1894.....	286,750,000	280,105,000
1877-78.....	223,237,157	186,209,646	1895.....	302,170,000	278,761,000
1878-79.....	206,153,301	192,338,337	1896.....	270,345,000	273,604,000
1879-80.....	256,137,902	253,827,267	1897.....	276,483,000	287,405,000
1880-81.....	274,651,218	271,973,776	1898.....	313,767,000	329,466,000

NOTE.—The years subsequent to 1878-79 include also the total approximate shipments of goods manufactured in Cincinnati. Values during the gold premium period represent currency basis.

CINCINNATI MANUFACTURING COMPARISONS.

Aggregate Value of the Products of Cincinnati Manufacturing Industry, Number of Hands Employed, Value of Real Estate Occupied, Cash Capital Invested, and Number of Establishments Engaged, for years indicated:

YEARS.	Number of Establishments.	Cash Capital Invested.	Value of Real Estate Occupied.	Number of Hands Employed.	Value of Production.
Total for year ending January 1, 1841.....	*....	*.....	*.....	9,040	\$16,366,443
" " " " 1851.....	*.....	*.....	*.....	28,527	46,189,279
" " " " 1861.....	*.....	*.....	*.....	30,268	46,995,062
" " " " 1870.....	*.....	\$45,225,586	\$86,853,783	59,354	119,140,069
" " " " 1871.....	*.....	51,673,741	87,124,119	59,827	127,459,021
" " " " 1872.....	*.....	50,520,179	40,443,558	58,443	135,988,365
" " " " 1873.....	3,971	55,265,129	45,164,964	58,508	143,486,675
" " " " 1874.....	4,118	54,377,853	47,758,133	55,915	127,698,858
" " " " 1875.....	4,469	63,149,085	52,151,680	60,999	144,207,371
" " " " 1876.....	4,698	64,429,740	53,326,440	62,218	146,431,354
" " " " 1877.....	5,003	61,883,787	51,550,983	60,723	140,583,960
" " " " 1878.....	5,183	57,868,592	47,464,792	64,709	135,123,768
" " " " 1879.....	5,272	57,509,215	45,245,687	67,145	138,736,165
" " " " 1880.....	5,493	60,523,350	48,111,870	74,798	148,967,280
" " " " 1881.....	5,450	67,651,552	40,096,456	80,839	163,351,497
" " " " 1882.....	5,835	72,916,171	41,283,135	86,293	186,329,667
" " " " 1883.....	5,518	77,624,359	43,767,681	90,523	194,572,536
" " " " 1884.....	5,492	78,209,414	44,779,169	91,761	200,857,439
" " " " 1885.....	5,738	75,046,064	44,155,240	88,488	184,465,410
" " " " 1886.....	5,946	76,248,200	45,620,500	93,103	190,722,158
" " " " 1887.....	6,566	77,918,870	46,418,885	98,600	198,267,029
" " " " 1888.....	6,774	78,468,800	46,770,519	103,325	203,459,396
Total for year ending July 1, 1890.....	†8,667	†106,599,037	†65,962,264	†115,944	†236,162,060

*Not reported. †Comprising also Covington, Newport and industries in Hamilton County legitimately belonging to Cincinnati.

NOTE.—Estimated value of production in 1892, \$255,000,000; in 1893, \$238,000,000; in 1894, \$225,000,000; in 1895, \$235,000,000; in 1896, \$225,000,000; in 1897, \$250,000,000; in 1898, \$270,000,000.

YEARLY MOVEMENT OF GRAIN.

Receipts and shipments of Wheat, Corn, Oats, Barley and Rye, representing bushels, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently:

YEARS.	WHEAT.		CORN.		OATS.		BARLEY.		RYE.	
	Receipts.	Shipm'ts.	Receipts.	Shipm'ts.	Receipts.	Shipm'ts.	Receipts.	Shipm'ts.	Receipts.	Shipm'ts.
1872-73.....	860,454	412,722	2,259,544	324,188	1,520,979	324,718	1,228,245	37,456	426,660	61,577
1873-74.....	1,221,176	788,990	3,457,164	658,718	1,872,464	216,660	1,084,500	90,688	385,984	117,849
1874-75.....	1,135,388	600,622	3,685,561	595,915	1,822,880	193,242	1,109,693	82,738	386,410	96,245
1875-76.....	1,062,952	558,252	4,115,594	1,028,325	1,441,158	321,755	1,551,944	232,556	500,515	178,408
1876-77.....	1,486,851	861,754	4,569,506	1,317,142	1,096,916	187,286	1,258,163	152,412	427,145	148,268
1877-78.....	3,405,113	2,867,082	4,321,456	1,236,459	1,467,010	146,452	1,597,451	123,617	374,637	125,018
1878-79.....	3,854,722	3,383,387	4,359,549	915,390	1,898,572	306,807	1,180,652	264,648	489,780	153,859
1879-80.....	4,289,555	3,799,166	5,744,246	1,730,282	1,534,401	354,287	1,555,107	159,769	573,925	307,471
1880-81.....	2,908,675	1,873,070	7,737,066	2,806,052	2,248,527	676,675	1,880,467	104,154	789,347	396,969
1881-82.....	4,166,245	3,128,498	8,180,846	3,910,408	2,512,364	914,516	1,786,383	82,137	701,066	321,236
1882-83.....	3,306,214	2,077,743	4,792,478	1,196,780	2,124,367	522,519	2,019,531	65,459	750,401	165,997
1883-84.....	3,107,000	2,342,649	5,519,625	1,783,057	3,068,422	1,296,737	1,527,622	82,697	453,068	109,490
1884-85.....	1,831,582	1,186,106	6,433,623	2,885,493	8,638,812	1,973,831	1,610,784	122,217	537,739	194,250
1885-86.....	3,375,472	2,562,261	6,386,644	2,795,237	3,903,853	2,120,282	1,547,483	206,370	608,026	247,912
1886-87.....	2,426,301	1,616,646	6,781,719	2,975,030	5,280,071	3,459,756	2,054,388	152,148	470,334	172,436
1887-88.....	1,934,494	1,052,687	5,878,935	2,391,596	6,354,100	4,186,808	1,831,860	93,511	397,594	126,669
1888-89.....	1,385,599	965,262	6,661,396	3,143,864	5,642,093	3,292,897	1,877,664	175,312	599,534	306,065
1889-90.....	1,257,083	808,512	6,835,161	2,716,545	5,085,746	2,765,143	2,190,646	177,268	556,977	327,918
1890-91.....	2,133,748	1,705,901	6,126,482	2,210,577	4,092,734	1,918,730	1,740,984	97,617	509,649	251,356
1891-92.....	1,971,600	1,475,115	5,509,601	1,864,535	5,224,537	2,721,264	1,930,470	37,581	462,208	202,759
1892.....	2,093,551	1,553,045	5,234,330	1,664,315	4,636,305	2,327,257	1,984,847	42,575	443,219	273,468
1893.....	2,084,546	1,786,009	7,077,860	3,825,555	5,428,247	2,918,737	1,381,220	92,404	494,979	219,218
1894.....	2,399,982	2,052,353	10,744,781	7,316,340	4,479,437	2,159,724	1,310,447	20,161	417,117	153,077
1895.....	2,030,682	1,647,274	8,892,763	5,710,115	5,418,652	2,967,595	1,065,862	28,255	433,458	178,836
1896.....	1,482,702	1,039,152	13,498,423	10,333,897	4,681,513	2,490,656	1,275,340	6,261	361,639	142,325
1897.....	2,010,842	1,551,091	15,901,253	13,016,832	7,627,932	5,637,110	1,092,828	73,720	567,483	264,769
1898.....	2,601,882	2,223,378	15,121,379	12,343,588	6,217,382	4,280,471	1,116,549	35,561	372,577	115,837

LOCAL AND TOTAL MOVEMENT OF GRAIN.

Movement of Grain, representing bushels, at Cincinnati, showing the local movement and aggregate, including Grain on through bills of lading, for commercial years ending August 31, to 1891-92, and calendar years subsequently:

YEARS.	LOCAL MOVEMENT.		INCLUDING GRAIN IN TRANSIT.	
	Receipts.	Shipments.	Receipts.	Shipments.
1884-85.....	8,213,915	437,271	14,147,540	6,370,896
1885-86.....	10,528,928	2,638,412	15,821,578	7,931,062
1886-87.....	11,806,473	3,219,736	16,962,813	8,376,076
1887-88.....	14,310,563	5,724,951	16,436,983	7,851,371
1888-89.....	10,899,706	2,617,810	16,164,286	7,882,390
1889-90.....	11,013,003	1,982,758	15,925,623	6,895,378
1890-91.....	10,862,747	2,443,331	14,603,597	6,184,181
1891-92.....	8,749,450	1,551,804	15,098,411	6,301,254
1892.....	9,643,152	1,241,555	14,362,252	5,960,656
1893.....	11,118,202	3,503,273	16,456,852	8,841,923
1894.....	10,868,614	3,218,505	19,351,764	11,701,655
1895.....	10,334,517	3,045,175	17,841,417	10,552,075
1896.....	11,183,217	3,898,892	21,300,617	14,066,292
1897.....	12,076,888	5,420,072	27,200,338	20,543,522
1898.....	9,101,719	2,670,775	25,429,769	18,998,825

YEARLY RANGE AND AVERAGE PRICES OF GRAIN.

Lowest and highest range and average yearly quotations, per bushel, at Cincinnati, for No. 2 Red Wheat; Mixed Ear Corn; Oats, representing No. 1 Mixed from 1867-68 to 1873-74, inclusive, and No. 2 Mixed from 1874-75 to 1898, inclusive; No. 2 Rye, and yearly average for No. 2 Fall Barley, for commercial years to 1891-92, and calendar years subsequently:

YEARS.	WHEAT.		CORN.		OATS.		RYE.		BARLEY.
	Range.	Average.	Range.	Average.	Range.	Average.	Range.	Average.	
1867-68.....	1 90@2 65	2 31	82 @1 06	92	58 @80	69	1 25 @2 10	1 62	2 11
1868-69.....	1 15@1 98	1 57	57 @1 10	78	55 @76	64	90 @1 45	1 28	2 37
1869-70.....	1 08@1 33	1 15	69 @1 05	83	48 @59	54	78 @1 00	92	1 26
1870-71.....	1 10@1 55	1 27	50 @ 79	56	34 @56	46	65 @1 13	91	1 00
1871-72.....	1 13@2 08	1 58	44 @ 75	49	30 @42	37	65 @1 10	85	78
1872-73.....	1 30@1 80	1 56	39 @ 50	42	27 @48	36	65 @ 90	76	87
1873-74.....	1 03@1 60	1 38	42 @ 75	60	33 @63	48	70 @1 20	98	1 51
1874-75.....	1 03@1 75	1 16	58 @ 87	72	44 @71	59	88 @1 28	1 06	1 41
1875-76.....	1 00@1 50	1 10	40 @ 78	51	30 @60	38	55 @ 87	74	1 20
1876-77.....	1 08@2 15	1 41	40 @ 57	46	28 @52	37	55 @1 05	74	90
1877-78.....	85@1 35	1 11	38 @ 49	42	26 @30	29	52 @ 66	59	52
1878-79.....	85@1 15	96	31 @ 45	37	22 @36	27	49 @ 62	54	1 00
1879-80.....	93@1 37	1 16	42 @ 51	42	23 @41	34	54 @ 95	82	89
1880-81.....	84@1 39	1 10	40 @ 87	49	30 @46	38	68 @1 35	1 04	98
1881-82.....	95@1 50	1 32	56 @ 87	72	37 @64	50	88 @1 17	94	1 05
1882-83.....	95@1 17	1 05	44 @ 76	54	28 @48	39	51 @ 70	62	76
1883-84.....	80@1 10	1 01	40 @ 62	53	25 @45	34	54 @ 71	62	76
1884-85.....	72@1 09	89	37 @ 59	47	25 @41	32	53 @ 75	63	80
1885-86.....	74@1 00	88	32 @ 48	39	25 @34	30	53 @ 69	63	86
1886-87.....	71@ 89	80	34 @ 55	40	26 @32	29	46 @ 66	58	61
1887-88.....	71@ 96	85	44 @ 61	52	26 @38	33	50 @ 73	62	81
1888-89.....	73@1 15	93	30 @ 49	37	20 @29	26	41 @ 65	52	78
1889-90.....	75@1 02	83	27 @ 56	36	21 @40	27	41 @ 72	50	57
1890-91.....	82@1 16	99	49 @ 77	60	31 @58	48	61 @1 05	81	77
1891-92.....	73@1 01	90	39 @ 67	48	30 @39½	33	62 @ 97½	85	70
1892.....	65@ 93	81	39 @ 53	45	32 @36½	33	52½ @ 89	73	69
1893.....	52@ 75	64	35½ @ 51	44	20 @36	32	48 @ 68	55	64
1894.....	48@ 60	54	35½ @ 59½	45	29½ @54	35	41½ @ 56	52	60
1895.....	53@ 90	66	24½ @ 56	41	19 @34½	27	40 @ 75	53	56½
1896.....	55@ 97	72	18½ @ 38	27	15½ @23	20	26½ @ 44	38	36
1897.....	70@1 00	89	20 @ 33	26	16½ @25	21	33 @ 52	41	39
1898.....	64@1 45	86	27½ @ 41	34	21½ @34½	27	40 @ 80	51	47

MONTHLY PRICES OF WHEAT.

Monthly range of quotations for No. 2 Red Wheat, per bushel, at Cincinnati:

MONTHS.	1898	1897	1896	1895	1894	1893	1892	1891
January.....	91@ 97	88 @ 95	87 @78	58 @55	58 @60	70 @75	92 @96½	95 @1 00
February.....	95@1 00	88 @ 90	73½@77	53½@55	56½@59½	70 @73½	92½@98	99 @1 01
March.....	95@ 98	88 @ 92	71 @75	55 @60	55 @58	67 @70	89½@96	98 @1 07
April.....	93@1 10	86½ @ 94½	70½@76	59 @70	56 @59	66 @70	89 @93	1 06½@1 16
May.....	1 08@1 45	82 @ 92	66 @70	68 @88	50 @56½	65 @71	86 @91	1 05 @1 13
June.....	70@1 08	78½ @ 82½	59 @65	75 @90	53 @58½	59 @65	81½@90	1 00 @1 06
July.....	66@ 84½	70 @ 79	55 @62	67 @75	48½@57½	52 @61	74 @83	81½@1 00
August.....	65@ 73	74½@1 00	60 @62	63 @71	48 @51½	53 @60	73 @76	87 @1 02
September.....	64@ 70	91 @ 96	59 @72	62 @70	50 @52½	57 @66	70 @73	83 @ 99
October.....	65@ 70½	91 @ 97	73 @81½	66 @70	49½@51½	60 @66	65 @74	84 @1 01
November.....	67@ 70	92 @ 96	81½@87	66 @67½	51 @55	57 @60½	65½@78	84 @ 98½
December.....	67@ 71	92½ @ 95½	91 @97	64½@69	53 @54½	58½@60	67 @70½	92 @ 97
YEARS.....	64@1 45	70 @1 00	55 @97	58 @90	48 @60	52 @75	65 @98	81½@1 16

MONTHLY PRICES OF CORN.

Monthly range for No. 2 Mixed Corn (shelled), per bushel, at Cincinnati :

MONTHS.	1898	1897	1896	1895	1894	1893	1892	1891
January	28½@30	21½@23½	27½@30	41 @43½	35½@38½	40½@43½	40½@43½	51½@55½
February	29 @32	22½@24	29½@30½	42 @44½	36½@38½	42 @45½	40 @42½	52½@58
March	31 @32	22½@25	29½@31	42 @48½	37 @40	41½@45	40½@43	56½@74
April	31 @37	25 @27½	30½@32	46 @48½	39 @42½	41 @44½	40 @44	70½@77½
May	35½@39	25½@27	28 @31½	48½@56	41 @42½	43 @46	42½@51	55½@73
June	33 @35	25 @26½	28 @29	46 @54	41 @45	39 @43	47 @55½	56½@63
July	34 @36½	26½@29	25 @30	43 @50	44½@52	40 @44	48½@50½	59 @63
August	30 @35½	28½@32	24 @26	36 @44	50 @58½	40 @45½	50 @54½	61 @67½
September	30 @31	30 @32	22 @26	32 @37	54½@60	41½@44	47½@52	55 @68
October	30½@35	25 @30½	25 @29	31 @33½	50 @54½	39 @43½	43 @47	57 @60
November	34 @36½	25½@28	20½@26	30 @32	44 @54	38 @41	43 @45	51 @58
December	33½@38	26 @30	21 @22½	25½@30	43 @46	37 @41	41 @45	42 @52
YEARS.....	28½@39	21½@32	20½@31½	25½@56	35½@60	37 @46	40 @55½	42 @77½

MONTHLY PRICES OF OATS.

Monthly range of quotations for No. 2 Mixed Oats, per bushel, at Cincinnati :

MONTHS.	1898	1897	1896	1895	1894	1893	1892	1891
January	24 @26	18½@20	19½@22	31½@33	30 @32½	34 @36	32½@34½	43½@48½
February	25½@28½	16½@19½	21½@23	30½@32	30½@32½	33 @35	32 @33	47½@49½
March	27½@29	17½@21	21 @22½	31 @32½	31½@36	33½@35½	30 @32½	48 @58
April	28 @31	20 @21½	20½@23	30½@32½	33½@37½	31 @34½	30½@33	54½@58½
May	29 @34½	19½@22	20 @22½	30½@32	37½@40½	31 @35	31 @37	47 @57½
June	25½@28	19 @22	17 @21½	29½@34½	39 @49	31 @33½	33 @39½	39 @49
July	23½@27	19½@21½	17½@23	26 @28½	30 @54	20 @34	33½@35½	31 @41½
August	21½@24½	17 @21	17 @21½	21 @27	30½@34½	21 @28½	33 @35	30½@33
September	22 @25	19½@21½	15½@18½	21½@23	30½@33	26 @32	32½@35	30 @33
October	23 @26	20 @21½	17 @20	19 @21½	29½@31½	28½@32½	32 @34	30 @32½
November	26½@29	20½@24½	19 @21½	19½@22	30½@33	29½@32	32 @36½	31½@37
December	28 @30	23½@25	18½@20½	19½@21½	31½@33½	30 @33	34 @36	34 @36½
YEARS.....	21½@34½	16½@25	15½@23	19 @34½	28½@54	20 @36	30 @39½	30 @58½

MONTHLY PRICES OF RYE.

Monthly range of quotations for No. 2 Rye, per bushel, at Cincinnati :

MONTHS.	1898	1897	1896	1895	1894	1893	1892	1891
January	45½@58	36 @44	37½@44	54½@55½	50 @54	56 @68	87 @93	73½@ 76
February	48 @53	36 @42	41½@44	54½@58½	51 @52	56½@60½	86 @92½	75½@ 89
March	52 @54½	36 @41½	39 @42	57½@60	52 @56	55 @57	89 @90½	87 @1 05
April	52 @66	36 @39	40 @44	58 @75	54 @56	56 @60	80 @89	92 @ 99
May	52 @80	35 @42½	36 @44	62 @73	52 @55	60 @68	80 @86	90 @ 94
June	40 @51	33 @39	33 @36	63 @72	51 @53½	54 @63	78½@85	85 @ 90
July	40 @45	33 @36	26½@35	45 @63	41½@56	50 @55	65 @79	61 @ 85
August	45 @50	35 @52	29½@35	42 @50	42 @46½	49 @50	62 @67	71 @1 05
September	45 @58½	46 @50	30½@36½	42 @46	46 @55	48 @52	55 @62	87 @ 90
October	48 @57	45 @47	36½@43	41 @46	50 @53½	51 @52	56 @61	87½@ 92
November	56 @59	46 @47	35 @40	40 @42	50½@53½	50 @52	52½@57	90 @ 97½
December	56 @58½	46 @48	35 @42	40 @42	53 @56	53 @54	53 @57	93 @ 95½
YEARS.....	40 @80	33 @52	26½@44	40 @75	41½@56	48 @68	52½@93	61 @1 05

PRICES OF WHEAT AND RYE.

Quotations for No. 2 Red Winter Wheat and No. 2 Rye, per bushel, at Cincinnati, on Tuesday of each week, in three years:

No. 2 RED WINTER WHEAT.				No. 2 RYE.			
DATES.	1896	1897	1896	DATES.	1896	1897	1896
January 4..	91	94½@95	68	January 4..	47	36 @37	40
11..	92	93½@94	68 @68½	11..	46	36 @37	39
18..	94 @ 95	92 @93	68½@69	18..	46	36	40½
25..	95	90	71	25..	47 @48	36	44
February 1..	96 @ 96½	88 @88½	76	February 1..	49	36 @37	44
8..	95 @ 95½	89 @90	75	8..	48 @48½	36 @37	42½
15..	97 @ 97½	89 @90	73½@74	15..	50 @51	36½@38	41½
22..	99	88½@89	74	22..	52 @53	36½@38	41½@41½
March 1..	97 @ 97½	89	75	March 1..	58	36	42
8..	97	88½@89	72	8..	54	36	41½@42
15..	97½@98	91	71	15..	54 @54½	37½@38	41
22..	97½	91	71 @71½	22..	52	36 @37½	39½
29..	95	89 @90	73½	29..	52	36	40
April 5..	94 @ 94½	88	75 @76	5..	52	36	40
12..	95½@96	88½	74	12..	53	36 @38	41
19..	99	92 @93	72 @73	19..	53	36 @37	41
26..	1 06 @1 08	91 @91½	70½	26..	58 @54	37 @38	42½@44
May 3..	1 09	91	67	3..	63 @65	38 @39	42 @44
10..	1 45	91	68 @69	10..	64 @66	37 @38	40
17..	1 25 @1 28	90	68	17..	65	36 @42½	41½@42
24..	1 28 @1 30	88 @90	67	24..	58 @59	35	39½
31..	1 08 @1 10	80	62 @62½	31..	52	37	38½
June 7..	1 04 @1 05	80	63 @65	7..	45	36	36
14..	85 @ 88	80½@81	63	14..	43 @45	37 @39	37
21..	78	80	64	21..	41	35	38½
28..	83 @ 84	80	50 @60	28..	42 @43	35 @36	33
July 5..	84½	78½	57	5..	42 @43	33	33
12..	76 @ 77	74½@75	55 @56	12..	41 @42	*33	*26½
19..	75 @ 75½	*72	58	19..	43	35 @36	28
26..	71 @ 72	73½@74	62	26..	41 @42	34 @35	35
August 2..	67	76 @77	61 @61½	2..	45	35	32
9..	73	79 @80	61	9..	45	40	30
16..	72	88 @88½	60	16..	49 @50	46	30
23..	67	93 @94	61	23..	47½@50	50	31
30..	67½	94	61	30..	45 @47	50	31
September 6..	64½@65	95 @95½	60	6..	45 @47	49 @50	30½
13..	65½	95½	61½	13..	45 @46½	50	31
20..	68	93	66	20..	47½@48½	47	35
27..	70	92 @93	72	27..	48 @48½	46	36
October 4..	66	93½	74 @74½	4..	48 @48½	47	36½
11..	67½@68	92 @92½	75	11..	50 @51	46	40
18..	68½	91½@92	81 @81½	18..	51½@52	46	41
25..	70	95	75	25..	55 @56	45	38
November 1..	68	94	85	1..	56 @57	47	37
8..	67 @ 67½	92	89 @90	8..	57 @58	47	36
15..	68½	92 @92½	90	15..	56	46½	36 @37
22..	69½@70	92	89	22..	56 @57	46½	35 @36
29..	69	94	97	29..	56 @58	46½	40 @41
December 6..	68½	93	92 @93	6..	58 @58	46	41 @42
13..	67 @ 68	93 @93½	94 @95	13..	56 @58	47	37½
20..	69	93½@94½	93½@94	20..	56 @58	47	35 @37
27..	70½	94½	95	27..	56 @58	47	35 @36

* New.

Months of lowest and highest prices of Wheat, in years indicated:

YEARS.	Lowest.	Highest.	YEARS.	Lowest.	Highest.
1891-92.....	August.....	October.....	1895.....	January.....	June.
1892.....	October.....	February.....	1896.....	July.....	December.
1893.....	July.....	January.....	1897.....	July.....	August.
1894.....	August.....	January.....	1898.....	September.....	May.

PRICES OF CORN.

Quotations of Mixed Ear Corn and No. 2 Mixed Corn (shelled), per bushel, at Cincinnati, on Tuesday of each week, in three years:

MIXED EAR CORN.				NO. 2 MIXED CORN (SHELLED).			
DATES.	1896	1897	1898	DATES.	1896	1897	1898
January 4.....	29 @30½	20 @20½	28½ @29	January 4.....	28½ @29	21½	29 @30
11.....	29 @30	21½ @22	28 @28½	11.....	28½	21½ @22	28
18.....	28½ @30	21½ @22	26½ @28	18.....	29	22½ @22	27½ @28
25.....	28 @28½	21 @21½	30 @30½	25.....	29	22½	29½ @28
February 1.....	28 @29	21 @22	28 @29	February 1.....	29½	23 @23½	30
8.....	29 @29½	22 @22½	28½ @29½	8.....	29	23 @23½	30
15.....	29 @30½	22½	30 @31	15.....	31½	23½ @23	30½
22.....	30 @31½	22½ @22½	30 @30½	22.....	32	23½	30
March 1.....	30 @31	21½ @22	30	March 1.....	31½	21½	31
8.....	31 @32	23	30	8.....	31½	24	30
15.....	31½ @33	28	32	15.....	31	24	29½ @30
22.....	31½ @32½	24 @25	30 @31	22.....	31	25	29½ @30
29.....	32 @33	23½ @24½	32	29.....	31½	25	30½ @30
April 5.....	32 @33	23½ @24	31½ @33	April 5.....	32	25	31 @31½
12.....	32 @33	23 @23½	32½ @33½	12.....	31 @31½	25	31½ @31½
19.....	36 @37	25 @25½	32	19.....	32½	26½	30½ @31½
26.....	38 @39	26½ @27	31½ @32	26.....	35	27 @27½	30½
May 3.....	38 @39	27 @28	31½ @32	May 3.....	37	26½ @27	31 @31½
10.....	39 @41	27 @28	32 @32½	10.....	39	26½ @27	30½ @31½
17.....	38 @39	27 @27½	31 @32½	17.....	37½ @38	26½ @26½	30
24.....	36 @37	25 @26½	30½ @31	24.....	37	26½	29
31.....	36 @37	23 @24	28	31.....	35½	25 @25½	28
June 7.....	36 @37	25 @26	28 @28½	June 7.....	35½	25 @25½	28½ @29
14.....	36	25 @26	28 @29	14.....	31½	26	28½ @28½
21.....	34½ @35½	25	28½ @29	21.....	35 @33½	26½	28½ @28½
28.....	36 @36½	25 @25½	27 @28	28.....	34	26½	28
July 5.....	36 @38	25 @26	27½ @28	July 5.....	34	27	28
12.....	34½ @35½	26 @26½	28 @29	12.....	34½	27½	27½
19.....	36½ @37½	27 @27½	28½ @29	19.....	35	28	29 @29½
26.....	37 @38	28 @28½	27 @28	26.....	36½	28½	27½
August 2.....	35½ @37	28 @28½	24 @24½	August 2.....	35½	28½ @29	26
9.....	32½ @34	28	24½ @25	9.....	35½ @34	28	26 @26½
16.....	31½ @32½	28	24½ @25	16.....	35½	29	25 @26½
23.....	30 @32	27 @28	23½ @24	23.....	31	31	24
30.....	30½ @31½	30 @30½	24½ @25	30.....	30	31	24½ @25
September 6.....	32	30 @30½	24½ @25	September 6.....	30½ @31	32	22
13.....	32 @33	32 @33	24	13.....	31	32	22
20.....	33 @34	31½ @32	24 @25	20.....	30½ @31	31½	23½
27.....	34	30 @31	27 @27½	27.....	31	30½	25
October 4.....	31 @32½	28½	27 @28	October 4.....	30½	30	26
11.....	30 @32	28 @28½	26½	11.....	31	28	25
18.....	29½ @30½	26 @27	29	18.....	31½	25½ @26	25½
25.....	35	24½ @25	25½	25.....	34	25 @25½	25 @25½
November 1.....	34 @35	26 @26½	22½	November 1.....	35	25½	25
8.....	35 @36	26 @26½	21	8.....	35½	26	25
15.....	35½ @36	26 @26½	21 @21½	15.....	35	27	25
22.....	35½ @36	27½ @28	20 @20½	22.....	35	27½	20
29.....	35	25 @26	21	29.....	35½	27	22 @22½
December 6.....	32½ @33½	25½ @26½	20 @21	December 6.....	34½	27	21½ @22
13.....	34 @34½	25½ @26	20 @21	13.....	34½	26½ @26½	22
20.....	35 @36	27 @28	19½ @20	20.....	35½	26½	21½
27.....	36½ @37	28½ @29	19½ @20	27.....	38	29½	21½

* New.

Range of prices of No. 2 White Shelled Corn, at Cincinnati, monthly, in 1898:

January.....	29 @30	April.....	31½ @38	July.....	34½ @37½	October.....	31 @35
February.....	29½ @32	May.....	37 @40	August.....	31 @36½	November.....	34 @37
March.....	31½ @32½	June.....	34½ @36	September... 31	@31½	December.....	34 @38½

NOTE.—General average for the year, 33.56

PRICES OF OATS.

Quotations for No. 2 Mixed Oats and No. 2 White Oats, per bushel, at Cincinnati, on Tuesday of each week, in three years:

No. 2 MIXED OATS.				No. 2 WHITE OATS.			
DATES.	1896	1897	1896	DATES.	1896	1897	1896
January 4.....	24	19 @20	20 1/4	January 4.....	26 1/2	22 @22 1/2	21 1/2
11.....	24 1/4 @24 1/2	19	20 1/4 @20 1/2	11.....	26 1/2	21 @21 1/2	21 1/2
18.....	25	18 1/4 @19	20 1/4 @21	18.....	27	21	22
25.....	25	18 1/4 @19	21 1/4	25.....	27	20 @21	22 1/2
February 1.....	26	19	22 @22 1/2	February 1.....	28	21	23
8.....	25 @25 1/4	19 @19 1/2	22 1/4 @22 1/2	8.....	28 1/2	21 1/2 @22	23 1/2 @24
15.....	27 1/2 @28	19	22 1/2	15.....	32	22 1/2	23 1/2
22.....	28 1/2 @28 3/4	17 1/2 @18 1/2	22 1/2	22.....	32	21 1/2 @23	24
March 1.....	27 1/2 @28	17 1/2 @18 1/2	22 @22 1/2	March 1.....	32	21 1/2	23 1/2 @24
8.....	28	18 @19	21 1/2 @21 1/2	8.....	32 @33	21 @22	24
15.....	28 1/2 @29	18 1/2 @19 1/2	22 1/2	15.....	32 @33	21 @22	24 @24 1/2
22.....	28 1/2 @29	19 @19 1/2	21 1/2 @22	22.....	31 @32	21 @22	23 1/2
29.....	28 @28 1/2	21	21 @21 1/2	29.....	31 @32	22 1/2 @23	23 1/2 @23
April 5.....	27	20 1/2 @21	22	April 5.....	31 1/2 @32 1/2	22	23 1/2
12.....	28	20 1/2 @21	22 1/2	12.....	30 @31	22	24
19.....	29	19 1/2 @20 1/2	22 1/2 @22 1/2	19.....	31 1/2	22 @22 1/2	24
26.....	30 @30 1/2	21 @21 1/2	21 1/2	26.....	32 @33	23 1/2	23
May 3.....	31 1/4	20 1/4 @21	21 @21 1/2	May 3.....	33 @33 1/2	23 1/2 @24	22 @22 1/2
10.....	34 1/4	21	21 @22	10.....	36	23 1/2 @23 1/2	23 1/2
17.....	34	21 1/2	21 1/2 @22 1/2	17.....	35 1/2	23 1/2 @24	23 1/2 @24
24.....	31 1/2 @32	21 1/2	21 1/2	24.....	33 @34	25 @26	22 1/2 @23 1/2
31.....	29 @29 1/2	20 1/2 @21	20 1/2 @21 1/2	31.....	32 @32 1/2	24 @25	22 @22 1/2
June 7.....	27	20 @20 1/2	20 1/2 @21	June 7.....	31 @32	23 @23 1/2	22 @22 1/2
14.....	27 1/2 @28	19 1/2 @20	18 1/2 @19 1/2	14.....	31 1/2 @32	23 @23 1/2	21 @21 1/2
21.....	26 1/4 @27	19 1/2 @20 1/2	19	21.....	30 1/2 @31	22 1/2 @22 1/2	22
28.....	26 @26 1/2	21 @22	17 1/2 @18	28.....	29 @30	22 1/2 @23	20
July 5.....	25 1/2 @25 1/2	20 @21	18 1/2	July 5.....	28 1/2	22 1/2 @23	20 1/2 @21
12.....	26	20 @21	18	12.....	28 1/2 @29	25	21
19.....	26 @26 1/2	20 @21	20 1/2	19.....	28 1/2 @29	24 1/2	22 1/2
26.....	24 @24 1/2	20 @20 1/2	21 1/2 @23	26.....	26 1/2 @27	24 @24 1/2	24 1/2
August 2.....	23 1/2 @23 1/2	20 @20 1/2	20 1/2 @20 1/2	August 2.....	26 1/2 @27	24 1/2 @25	25
9.....	23 1/2 @24	17	19 @19 1/2	9.....	27 1/2	20 @21	22
16.....	22 1/2 @23 1/2	17	18 1/2 @19	16.....	26 @26 1/2	20 @21	22 1/2
23.....	21 1/2 @22	19 @19 1/2	17 1/2 @19	23.....	25 1/2 @26	22 @22 1/2	21 1/2
30.....	21 1/2 @21 1/2	20	17 1/2	30.....	25 @26	23	20 1/2
September 6.....	22 1/2 @23	20	15 1/2 @16	September 6.....	26 @26 1/2	24 1/2 @25	20
13.....	22	21 @21 1/2	17 1/2 @18	13.....	26 @26 1/2	24 1/2 @25	21
20.....	24	20 @21	17 1/2 @18	20.....	26 @27	24 1/2 @25	21 @21 1/2
27.....	24 @24 1/2	21 @21 1/2	17 1/2	27.....	26 1/2 @27 1/2	24 1/2	21 1/2
October 4.....	23 @23 1/2	21 1/2	17 1/2	October 4.....	26 @26 1/2	24	21 1/2
11.....	23 1/2 @24	20 1/2 @21 1/2	17 1/2 @18	11.....	26 @26 1/2	24	21 1/2
18.....	24 1/2 @25	20 1/2	18	18.....	27 @27 1/2	23 @23 1/2	22
25.....	25 1/2 @26 1/2	20 1/2 @20 1/2	18	25.....	28 1/2 @29	24	21 @21 1/2
November 1.....	26 1/2	20 1/2 @21 1/2	19 @20	November 1.....	28 @28 1/2	24	23
8.....	27 @27 1/2	21 1/2 @21 1/2	20 @21	8.....	29 1/2 @30	24	23 1/2
15.....	27 @27 1/2	22 1/2	20 1/2 @21	15.....	29 1/2 @30	24 1/2 @25 1/2	24 1/2 @25
22.....	28 @28 1/2	23 1/2	19	22.....	31	25 1/2	26
29.....	28 @28 1/2	23 1/2	19 1/2 @20	29.....	29 1/2	25 1/2	24 @25
December 6.....	28 1/2	23 1/2 @24	19 1/2 @20	December 6.....	30 @31	26 @26 1/2	22 1/2 @23
13.....	28	24 1/2	19 @20	13.....	30	26 1/2	22 1/2 @23
20.....	29	24 1/2 @24 1/2	19 1/2 @20	20.....	30 1/2	27 @27 1/2	21 @22
27.....	29	24 1/2	19 @20	27.....	31	26 1/2 @27	21 @22

* New.

PRICES OF MALT.

Prices of Spring Barley Malt ranged during the year by months as follows:

January.....	52@58	April.....	52@58	July.....	56@60	October.....	56@60
February.....	52@58	May.....	58@62	August.....	56@60	November.....	56@60
March.....	52@58	June.....	58@62	September.....	56@60	December.....	56@63

NOTE.—General average for the year, 57.46.

PRICES OF BARLEY.

Quotations for Extra No. 3 Fall Barley and Extra No. 3 Spring Barley, per bushel, at Cincinnati, on Tuesday of each week, in three years:

EXTRA NO. 3 FALL BARLEY.				EXTRA NO. 3 SPRING BARLEY.			
DATES.	1896	1897	1898	DATES.	1896	1897	1898
January 4.....	38@41	31@34	31@35	January 4.....	32@36	31@37	30@37
11.....	38@41	31@34	30@34	11.....	32@36	31@37	30@37
18.....	38@41	31@34	30@34	18.....	32@36	31@37	32@38
25.....	38@41	31@34	30@34	25.....	32@36	30@35	34@38
February 1.....	38@41	31@34	30@34	February 1.....	32@36	30@35	34@38
8.....	38@41	31@34	30@34	8.....	32@36	30@35	34@38
15.....	37@43	31@34	30@34	15.....	32@36	30@35	34@38
22.....	37@43	31@34	30@34	22.....	36@42	30@35	34@38
March 1.....	37@43	31@34	30@34	March 1.....	36@42	30@35	34@38
8.....	37@43	31@34	30@34	8.....	36@42	30@35	34@38
15.....	37@43	31@34	30@34	15.....	36@42	30@35	34@38
22.....	37@43	31@34	27@30	22.....	36@42	30@35	31@40
29.....	37@43	31@34	27@30	29.....	36@42	30@35	31@40
April 5.....	37@43	31@34	27@30	April 5.....	36@42	30@35	31@40
12.....	37@43	31@34	27@30	12.....	36@42	30@35	31@40
19.....	37@43	31@34	27@30	19.....	36@42	30@35	31@40
26.....	37@43	31@34	27@30	26.....	36@42	30@35	31@40
May 3.....	37@43	31@34	27@30	May 3.....	36@42	30@35	31@40
10.....	53	31@34	27@30	10.....	53	30@35	31@40
17.....	53	31@34	27@30	17.....	53	30@35	31@40
24.....	53	31@34	27@30	24.....	53	30@35	31@40
31.....	53	31@34	27@30	31.....	53	30@35	31@40
June 7.....	.....	31@34	27@30	June 7.....	.....	30@35	31@40
14.....	.....	31@34	27@30	14.....	.....	30@35	31@40
21.....	.....	31@34	27@30	21.....	.....	30@35	31@40
28.....	.....	31@34	27@30	28.....	.....	30@35	31@40
July 5.....	.....	31@34	27@30	July 5.....	.....	30@35	31@40
12.....	.....	31@34	27@30	12.....	.....	30@35	31@40
19.....	.....	31@34	27@30	19.....	.....	30@35	31@40
26.....	.....	31@34	27@30	26.....	.....	30@35	31@40
August 2.....	.....	31@34	27@30	August 2.....	.....	30@35	31@40
9.....	.....	31@34	27@30	9.....	.....	30@35	31@40
16.....	.....	31@34	27@30	16.....	.....	30@35	31@40
23.....	.....	31@34	27@30	23.....	.....	30@35	31@40
30.....	.....	31@34	27@30	30.....	.....	30@35	31@40
September 6.....	.....	31@34	27@30	September 6.....	.....	30@35	31@40
13.....	.....	41@44	27@30	13.....	.....	40@45	31@40
20.....	.....	41@44	27@30	20.....	.....	40@45	31@40
27.....	.....	41@44	27@30	27.....	.....	40@45	31@40
October 4.....	.....	41@44	30@32	October 4.....	42@45	36@41	32@38
11.....	.....	41@44	30@32	11.....	42@45	36@41	32@38
18.....	.....	41@44	30@32	18.....	42@45	36@41	32@38
25.....	.....	41@44	32@34	25.....	42@45	36@41	30@38
November 1.....	50@52	41@44	32@34	November 1.....	50	36@41	30@38
8.....	50@52	41@44	32@35	8.....	50	36@41	33@39
15.....	50@52	41@44	32@35	15.....	47@50	36@41	33@39
22.....	50@52	41@44	31@34	22.....	47@50	36@41	33@39
29.....	51@53	41@44	30@33 1/2	29.....	52@54	36@41	30@35
December 6.....	51@53	41@44	30@33 1/2	December 6.....	47@54	36@41	31@37
13.....	51@53	41@44	30@33 1/2	13.....	47@54	36@41	31@37
20.....	51@53	41@44	30@33 1/2	20.....	50@54	36@41	31@37
27.....	51@53	41@44	30@33 1/2	27.....	50@54	36@41	31@37

Prices of No. 2 Fall Barley ranged during the year by months as follows:

January.....	45@46	April.....	45@46	July.....	.....	October.....	.....
February.....	45@46	May.....	45@57	August.....	.....	November.....	.....
March.....	45@46	June.....	.....	September.....	.....	December.....	.....

NOTE.—General average for the year, 46.65.

MONTHLY RECEIPTS AND SHIPMENTS OF GRAIN.

Monthly receipts and shipments of Grain, in bushels, at Cincinnati, for the year ending December 31, 1898, exclusive of through movement:

MONTHS.	RECEIPTS.					SHIPMENTS.				
	WHEAT.	CORN.	OATS.	RYE.	BARLEY.	WHEAT.	CORN.	OATS.	RYE.	BARLEY.
January.....	69,015	400,278	151,878	45,102	141,325	45,580	86,804	118,916	17,565	795
February....	93,599	365,236	189,528	65,094	111,540	40,593	75,821	69,860	27,577	3,500
March.....	62,228	289,272	204,566	30,178	105,035	36,827	84,376	86,311	14,438	758
April.....	32,907	300,246	286,455	20,421	49,375	18,436	50,111	56,164	4,410	1,056
May.....	127,060	304,522	320,238	19,432	21,703	106,005	71,670	132,526	2,757	706
June.....	36,096	246,540	280,489	4,283	3,510	35,260	59,230	152,639	2,266	.....
July.....	92,245	185,290	289,475	3,289	.....	88,477	40,080	82,690	578	.....
August.....	58,283	263,160	509,949	21,021	2,125	28,948	56,640	203,687	3,722	3
September...	49,625	162,777	280,856	20,896	63,013	15,714	40,384	124,453	4,478	700
October.....	74,603	223,360	345,408	29,629	241,005	31,863	30,208	124,730	2,038	2,108
November....	45,891	281,096	418,827	56,960	210,765	18,565	25,490	162,378	6,733	8,422
December....	48,831	332,602	233,623	32,177	160,364	7,365	47,380	151,165	6,742	703
Totals.....	790,382	3,854,970	3,899,382	348,377	1,099,749	421,878	669,388	1,467,471	93,287	18,751

VISIBLE SUPPLY OF WHEAT.

Stocks of Wheat, in granary, at principal points of accumulation, at lake and seaboard ports, and in transit by water, the first of each month, for ten years:

MONTHS.	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889
January....	38,816,000	54,651,000	69,958,000	88,561,000	80,228,000	81,238,000	45,908,000	25,478,000	33,972,000	38,321,000
February....	36,202,000	49,591,000	66,734,000	84,665,000	80,264,000	81,487,000	43,118,000	23,592,000	31,488,000	34,875,000
March.....	34,088,000	43,797,000	64,089,000	79,476,000	77,257,000	79,463,000	41,111,000	22,926,000	28,996,000	32,000,000
April.....	30,223,000	39,023,000	61,048,000	74,308,000	71,458,000	77,654,000	41,036,000	22,764,000	27,116,000	29,440,000
May.....	23,263,000	34,412,000	55,519,000	65,776,000	66,583,000	75,027,000	37,986,000	20,980,000	23,962,000	26,046,000
June.....	23,672,000	26,897,000	50,340,000	62,229,000	59,894,000	70,159,000	29,522,000	17,493,000	22,453,000	20,206,000
July.....	14,701,000	8,794,000	47,960,000	44,561,000	54,657,000	62,316,000	24,262,000	13,590,000	20,174,000	15,301,000
August.....	9,093,000	17,814,000	46,734,000	39,229,000	57,144,000	59,349,000	23,992,000	16,768,000	18,463,000	12,135,000
September...	5,927,000	15,473,000	45,574,000	35,438,000	66,949,000	56,881,000	36,260,000	19,124,000	17,640,000	14,895,000
October.....	11,263,000	21,104,000	48,715,000	40,768,000	71,413,000	60,528,000	47,901,000	26,862,000	16,800,000	17,853,000
November....	15,476,000	26,974,000	58,680,000	50,486,000	78,190,000	69,327,000	61,694,000	36,232,000	21,235,000	25,712,000
December....	23,369,000	33,656,000	58,914,000	63,903,000	85,159,000	78,091,000	72,590,000	43,265,000	24,528,000	31,471,000

VISIBLE SUPPLY OF CORN.

Stocks of Corn, in granary, at principal points of accumulation, at lake and seaboard ports, and in transit by water, the first of each month, for ten years:

MONTHS.	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889
January....	38,421,000	19,852,000	5,817,000	9,630,000	8,322,000	11,454,000	7,061,000	2,568,000	8,097,000	8,496,000
February....	40,581,000	21,938,000	11,976,000	12,654,000	14,406,000	12,584,000	7,386,000	2,610,000	11,919,000	13,877,000
March.....	40,870,000	26,408,000	13,936,000	12,969,000	18,172,000	15,093,000	10,885,000	2,767,000	14,445,000	15,833,000
April.....	42,647,000	25,162,000	16,366,000	13,407,000	18,538,000	15,315,000	11,508,000	2,988,000	20,204,000	16,839,000
May.....	27,044,000	16,997,000	11,319,000	11,107,000	13,114,000	11,539,000	5,956,000	3,125,000	14,385,000	12,523,000
June.....	20,115,000	12,494,000	8,905,000	10,763,000	7,495,000	5,627,000	3,724,000	5,153,000	12,685,000	11,608,000
July.....	22,575,000	16,913,000	8,760,000	9,060,000	6,441,000	8,075,000	7,444,000	3,850,000	14,822,000	9,439,000
August.....	17,575,000	15,677,000	10,752,000	5,207,000	3,973,000	8,020,000	7,004,000	3,874,000	12,049,000	7,153,000
September...	16,580,000	27,873,000	13,964,000	5,407,000	3,151,000	5,546,000	8,471,000	5,611,000	9,284,000	11,766,000
October.....	21,406,000	37,048,000	13,218,000	5,451,000	4,305,000	8,071,000	10,945,000	8,887,000	8,640,000	12,833,000
November....	24,574,000	45,958,000	19,340,000	4,805,000	2,759,000	9,174,000	13,230,000	2,972,000	7,017,000	7,792,000
December....	22,263,000	42,058,000	18,228,000	5,517,000	4,866,000	7,104,000	10,720,000	2,626,000	8,144,000	6,204,000

STOCKS OF GRAIN AND FLOUR.

Stocks of Grain, in elevators, representing bushels, at Cincinnati, at the close of each week, in two years:

1896	WHEAT	CORN.	OATS.	RYE.	BARLEY	1897	WHEAT	CORN.	OATS.	RYE.	BARLEY
January 8	8,758		76,179	22,016	60,080	January 2	4,500	670	13,087	5,906	133,552
15	6,886		66,896	15,491	54,223	9	8,500	800	13,083	5,898	130,189
22	5,096		52,314	15,491	55,787	16	4,637		11,083	6,451	127,051
29	5,958		43,898	11,705	76,684	23	4,500	3,315	11,083	9,989	134,321
February 5	6,397		38,851	12,027	71,222	30	4,500	2,637	12,081	7,864	129,661
12	6,397		29,530	12,736	62,723	February 6	6,000	2,697	10,083	7,864	136,697
19	6,959		17,862	10,648	59,087	13	6,000	872	9,083	8,130	132,558
26	7,814		17,862	12,258	58,510	20	6,000	872	9,083	8,410	129,202
March 5	8,498		17,862	1,428	56,488	27	6,000	2,377	10,083	8,410	118,611
12	2,892		13,224	1,428	48,697	March 6	6,000	3,280	10,016	8,410	103,821
19	2,941		14,273	4,553	61,622	13	3,000	2,100	9,083		100,476
26	3,542		9,273	5,894	44,799	20			9,083		98,429
April 3	3,542		14,273	5,894	39,373	27			9,433		90,129
10	7,944	1,406	15,649	6,619	31,797	April 4			10,288		64,223
17	6,535		12,664	8,035	25,344	11			10,282		48,104
24	4,568		11,662	12,558	14,801	18			11,033	387	25,656
May 1	3,956		8,373	16,067	2,985	25		2,206	11,530	387	15,919
8	2,397		7,375	16,067	2,985	May 2	857	2,946	9,578	1,003	9,619
15			7,375	8,935	1,990	9	857	2,359	9,664	1,303	4,182
22			22,167	8,935	2,981	16	857	2,545	9,664	687	4,182
June 5			27,281	3,542	995	23	857	2,869	10,815		3,606
12			44,537	3,542		30	857	4,869	10,811		1,991
19			40,009	3,542		June 6	857	2,328	8,615		1,941
26			31,152	3,542		13	1,336	2,968	8,295	500	876
July 3			10,236	3,542		20	1,062	2,968	8,295	500	876
10			5,296	3,542		27	1,062	12,730	10,240	500	876
17			5,296	3,542		August 4	1,062	11,319	8,295	500	876
24			5,296	3,542		11	1,062	3,077	9,596	500	1,476
August 30				3,542		18	1,062	4,458	4,961	500	1,476
6			9,850			25	1,062	2,276	11,542		1,476
13			25,174	1,498		September 1		1,570	9,676		1,476
20			28,975		1,349	8		4,414	8,342		1,476
27			30,369		1,349	15		3,227	8,342		1,476
September 3			31,404		1,849	22		3,923	39,484		1,476
10			35,354	3,944	1,849	29		4,999	44,060		1,476
17			37,107	6,413	14,105	October 6	4,134	5,080	45,434		1,476
24			35,644	7,033	41,169	13	4,996	5,399	45,725		1,476
October 1			34,180		42,393	20	6,695	5,925	43,285	1,191	11,442
8			35,327	1,143	43,480	27	7,502	4,274	49,725	4,215	11,944
15			16,562	3,043	42,067	November 3	7,756	3,919	36,794	4,914	12,027
22			16,562		52,187	10	7,756	4,290	14,523	5,970	2,587
29			1,907	2,743	74,460	17	7,756	4,289	8,938	7,949	25,401
November 5			5,878	3,828	7,617	24	7,922	5,422	8,295	6,935	50,753
12			9,502	14,115	69,114	31	6,846	22,572	16,837	1,473	64,122
19			10,854	16,022	64,088	December 7	6,846	23,779	23,055	3,072	60,197
26			9,139	29,208	10,835	14	8,724	18,248	33,082	13,373	71,584
December 3			9,139	33,596	12,851	21	8,470	12,698	35,596	22,527	61,588
10			8,952	36,846	21,726	28	8,470	9,206	39,282	22,527	62,171
17			6,190	37,529	23,875	January 4	8,470	8,325	41,143	22,527	71,853
24			5,192	45,789	109,553	11	12,131	2,880	30,521	22,527	58,512
31						18	12,131		47,718	23,530	63,149
						25	12,131		59,850	25,944	74,754

NOTE.—Large quantities of Grain at times are stored in private warehouses, not shown in returns of elevators. Such supplies frequently exceed quantities in the regular elevators.

Stocks of Flour, at Cincinnati, on date indicated, representing barrels:

DATES.	WHEAT.	RYE.	TOTAL.	DATES.	WHEAT.	RYE.	TOTAL.
June 1, 1885	47,819	1,422	49,241	June 1, 1895	35,627	2,555	38,182
June 1, 1886	41,802	1,215	43,017	June 1, 1896	34,960	1,584	36,544
June 1, 1887	40,827	1,347	42,174	June 1, 1897	23,576	1,677	25,253
June 1, 1888	41,861	1,396	43,257	June 1, 1898	34,937	2,157	37,094
June 1, 1889	37,466	1,209	38,675	January 1, 1894	48,876	1,121	49,997
June 1, 1890	48,470	1,315	49,785	January 1, 1895	50,483	2,386	52,869
June 1, 1891	40,044	992	41,036	January 1, 1896	45,255	1,914	47,169
June 1, 1892	35,835	1,239	37,074	January 1, 1897	36,691	3,037	39,728
June 1, 1893	43,796	1,506	45,292	January 1, 1898	44,034	2,053	46,087
June 1, 1894	47,888	1,385	49,273	January 1, 1899	40,752	2,842	43,594

PRICES OF FLOUR.

Quotations for Winter Family, Extra and Low grades and Spring Family Flour, at Cincinnati, on Tuesday of each week, in two years:

DATES.	WINTER FAMILY.		EXTRA.		LOW GRADES.		SPRING FAMILY.	
	1896	1897	1896	1897	1896	1897	1896	1897
January 4....	\$3 35@3 80	\$3 60@3 90	\$3 00@3 30	\$2 75@3 25	\$2 50@2 75	\$2 50@2 75	\$3 95@4 20	\$3 55@3 85
11....	3 35@3 80	3 60@3 90	3 00@3 30	2 75@3 25	2 50@2 75	2 50@2 75	3 95@4 20	3 55@3 85
18....	3 50@3 80	3 60@3 90	3 00@3 25	2 75@3 25	2 50@2 75	2 50@2 75	3 95@4 20	3 55@3 85
25....	3 50@3 80	3 60@3 90	3 00@3 25	2 75@3 25	2 50@2 75	2 50@2 75	3 95@4 20	3 55@3 85
February 1....	3 60@3 90	3 50@3 80	3 15@3 40	2 75@3 20	2 60@2 85	2 50@2 75	4 00@4 25	3 40@3 70
8....	3 60@3 90	3 50@3 80	3 15@3 40	2 75@3 20	2 60@2 85	2 50@2 75	4 00@4 25	3 40@3 70
15....	3 60@3 95	3 45@3 75	3 15@3 35	2 75@3 20	2 65@2 90	2 50@2 70	4 00@4 20	3 40@3 70
22....	3 75@4 10	3 45@3 75	3 30@3 50	2 75@3 20	2 75@3 10	2 50@2 70	4 10@4 30	3 40@3 70
March 1....	3 75@4 10	3 40@3 70	3 30@3 50	2 75@3 20	2 75@3 10	2 50@2 70	4 10@4 30	3 40@3 70
8....	3 75@4 10	3 40@3 70	3 30@3 50	2 75@3 20	2 75@3 10	2 50@2 70	4 10@4 30	3 40@3 70
15....	3 75@4 10	3 40@3 70	3 30@3 50	2 75@3 20	2 75@3 10	2 50@2 70	4 10@4 30	3 40@3 70
22....	3 70@4 00	3 35@3 65	3 30@3 50	2 75@3 20	2 75@3 10	2 50@2 70	4 10@4 30	3 40@3 70
29....	3 70@4 00	3 35@3 65	3 30@3 50	2 75@3 20	2 75@3 10	2 50@2 70	4 10@4 30	3 40@3 70
April 5....	3 70@4 00	3 35@3 65	3 30@3 50	2 75@3 20	2 75@3 10	2 50@2 70	4 10@4 30	3 40@3 70
12....	3 60@3 90	3 25@3 60	3 30@3 50	2 75@3 10	2 75@3 10	2 50@2 60	4 10@4 35	3 20@3 50
19....	3 70@4 00	3 35@3 65	3 40@3 60	2 80@3 15	2 85@3 20	2 30@2 65	4 20@4 55	3 30@3 60
26....	4 20@4 50	3 35@3 65	3 65@3 90	2 90@3 20	3 20@3 55	3 30@2 65	4 75@5 00	3 30@3 60
May 3....	4 25@4 55	3 35@3 65	3 70@3 95	2 90@3 20	3 20@3 60	2 30@2 65	4 75@5 00	3 30@3 60
10....	5 00@5 25	3 35@3 65	4 35@4 65	2 90@3 20	3 75@4 10	2 30@2 65	5 70@5 90	3 30@3 60
17....	5 00@5 25	3 35@3 65	4 25@4 50	2 90@3 20	3 75@4 00	2 30@2 65	5 50@5 80	3 40@3 65
24....	5 00@5 25	3 35@3 65	4 25@4 50	2 80@3 10	3 75@4 00	2 30@2 65	5 50@5 80	3 40@3 65
31....	4 80@5 10	3 25@3 50	4 15@4 40	2 75@3 00	3 50@3 75	2 25@2 55	5 85@6 15	3 10@3 35
June 7....	4 75@4 80	3 25@3 50	4 00@4 30	2 75@3 00	3 25@3 65	2 25@2 55	5 00@5 30	3 10@3 35
14....	4 00@4 25	3 25@3 50	3 60@3 90	2 75@3 00	2 75@3 10	2 25@2 55	4 50@5 00	3 10@3 35
21....	3 70@4 00	3 25@3 50	3 40@3 65	2 75@3 00	2 75@3 00	2 25@2 55	4 30@4 75	3 10@3 35
28....	3 50@3 75	3 10@3 50	3 00@3 30	2 75@3 00	2 50@2 75	2 25@2 55	4 00@4 30	3 10@3 35
July 5....	3 50@3 75	3 00@3 45	3 00@3 30	2 70@3 00	2 60@2 75	2 00@2 50	4 00@4 30	3 00@3 35
12....	3 50@3 75	3 00@3 35	3 00@3 30	2 70@3 00	2 50@2 75	2 00@2 50	3 85@4 15	3 00@3 35
19....	3 15@3 35	3 00@3 35	2 90@3 00	2 65@2 90	2 50@2 75	2 00@2 50	3 85@4 15	3 15@3 50
26....	3 15@3 35	3 00@3 35	2 90@3 10	2 65@2 90	2 50@2 75	2 00@2 50	3 85@4 15	3 25@3 60
August 2....	2 75@3 00	3 00@3 35	2 40@2 60	2 65@2 90	2 50@2 75	2 00@2 50	3 50@4 00	3 35@3 70
9....	2 75@3 00	3 00@3 35	2 40@2 60	2 65@2 90	2 00@2 25	2 00@2 50	3 25@3 75	3 35@3 70
16....	2 75@3 00	3 15@3 40	2 40@2 60	2 85@3 10	2 00@2 25	2 25@2 50	3 25@3 75	3 70@3 90
23....	2 75@3 00	3 75@4 00	2 40@2 60	3 25@3 50	2 00@2 25	2 60@2 90	3 25@3 75	4 00@4 15
30....	2 75@2 95	3 75@4 00	2 40@2 60	3 25@3 50	2 00@2 25	2 60@2 90	3 20@3 40	4 20@4 40
September 6....	2 75@2 95	3 75@4 00	2 40@2 60	3 25@3 50	2 00@2 25	2 60@2 90	3 20@3 40	4 20@4 40
13....	2 50@2 80	3 70@4 00	2 25@2 50	3 20@3 40	1 90@2 20	2 50@2 85	3 00@3 20	4 20@4 40
20....	2 60@2 80	3 70@4 00	2 30@2 50	3 20@3 40	2 00@2 20	2 50@2 85	3 00@3 20	4 20@4 40
27....	2 60@2 80	3 60@3 90	2 15@2 45	3 15@3 35	1 90@2 10	2 50@2 85	3 00@3 20	4 15@4 35
October 4....	2 60@2 80	3 60@3 90	2 15@2 45	3 15@3 35	1 90@2 10	2 50@2 85	3 00@3 25	4 10@4 30
11....	2 35@2 60	3 50@3 75	2 00@2 25	3 00@3 25	1 75@2 00	2 50@2 75	2 75@3 00	4 00@4 25
18....	2 35@2 60	3 45@3 65	2 00@2 25	3 00@3 25	1 75@2 00	2 50@2 75	2 75@3 00	4 00@4 25
25....	2 50@2 75	3 55@3 75	2 20@2 45	2 95@3 25	1 95@2 20	2 55@2 80	2 95@3 20	4 00@4 25
November 1....	2 50@2 75	3 60@3 80	2 20@2 45	3 00@3 30	1 95@2 20	2 60@2 85	2 95@3 20	4 10@4 35
8....	2 45@2 70	3 50@3 75	2 15@2 40	3 00@3 30	1 90@2 15	2 50@2 75	2 85@3 10	4 00@4 25
15....	2 45@2 70	3 50@3 75	2 15@2 40	3 00@3 30	1 90@2 15	2 50@2 75	2 85@3 10	3 95@4 20
22....	2 45@2 70	3 50@3 75	2 15@2 40	3 00@3 30	1 90@2 15	2 50@2 75	2 85@3 10	3 95@4 20
29....	2 45@2 70	3 50@3 75	2 15@2 40	3 00@3 30	1 90@2 15	2 50@2 75	2 85@3 10	3 95@4 20
December 6....	2 45@2 70	3 50@3 75	2 15@2 40	3 00@3 30	1 90@2 15	2 50@2 75	2 85@3 10	3 95@4 20
13....	2 40@2 60	3 55@3 80	2 00@2 30	3 00@3 30	1 80@2 00	2 50@2 75	2 85@3 10	3 95@4 20
20....	2 40@2 60	3 55@3 80	2 00@2 30	3 00@3 30	1 80@2 00	2 50@2 75	2 85@3 10	3 95@4 20
27....	2 40@2 60	3 55@3 80	2 00@2 30	3 00@3 30	1 80@2 00	2 50@2 75	2 85@3 00	3 95@4 20

* New.

Monthly movement of Flour, representing barrels, at Cincinnati, in 1898:

MONTHS.	Receipts.	Shipm'ts.	MONTHS.	Receipts.	Shipm'ts.	MONTHS.	Receipts.	Shipm'ts.
January.....	214,869	190,061	May.....	144,892	109,218	September.....	182,779	146,487
February.....	199,385	165,386	June.....	71,141	51,212	October.....	249,875	210,793
March.....	245,276	264,546	July.....	80,513	49,895	November.....	238,519	202,982
April.....	186,067	153,824	August.....	139,321	94,713	December.....	317,008	278,792

YEARLY PRICES OF FLOUR.

Average yearly prices of Family, Extra and Low grades of Winter Wheat Flour, and Family grade of Spring Wheat Flour, also lowest and highest range of prices yearly of Winter Family grade, per barrel, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently :

YEARS.	AVERAGE ANNUAL PRICES.				WINTER FAMILY.	
	Winter Family.	Winter Extra.	Winter Low Grades.	Spring Family.	Lowest.	Highest.
1876-77.....	\$6 95	\$6 39	\$5 47	\$6 96	\$5 00@5 25	\$9 45@9 65
1877-78.....	5 39	4 86	3 91	5 45	4 40@4 75	6 25@6 40
1878-79.....	4 60	4 07	3 30	4 69	4 00@4 25	5 25@5 50
1879-80.....	5 52	4 85	4 11	5 77	4 40@4 85	6 25@6 50
1880-81.....	5 16	4 51	3 80	5 41	4 25@4 65	6 85@7 10
1881-82.....	6 18	5 56	4 82	6 96	4 50@5 25	7 25@7 40
1882-83.....	4 76	4 06	3 46	5 56	4 10@4 40	5 15@5 40
1883-84.....	4 64	3 58	3 09	5 14	3 60@4 00	4 85@5 15
1884-85.....	3 53	3 23	2 90	4 26	3 00@3 50	4 50@4 90
1885-86.....	4 05	3 33	2 89	4 10	3 25@3 60	4 50@4 75
1886-87.....	3 46	2 97	2 65	3 70	3 00@3 30	3 75@4 00
1887-88.....	3 52	3 03	2 69	3 88	3 00@3 30	3 85@4 15
1888-89.....	4 03	3 45	2 99	4 49	3 15@3 40	4 90@5 25
1889-90.....	3 29	2 79	2 34	3 84	2 80@3 00	4 00@4 35
1890-91.....	4 04	3 64	3 06	4 60	3 50@3 75	4 50@4 65
1891-92.....	3 65	3 20	2 70	4 20	2 50@2 85	4 00@4 15
1892.....	3 10	2 70	2 25	3 70	2 25@2 60	3 75@3 85
1893.....	2 30	2 00	1 75	2 95	2 00@2 10	2 40@2 60
1894.....	2 10	1 92	1 75	2 47	2 00@2 10	2 15@2 25
1895.....	2 72	2 43	2 12	2 79	2 00@3 55	2 05@3 80
1896.....	2 90	2 37	2 00	2 89	2 20@3 90	2 20@4 00
1897.....	3 55	3 04	2 55	3 72	3 00@3 25	3 75@4 00
1898.....	3 43	3 00	2 54	3 90	2 35@4 55	2 45@5 25

NOTE.—Quotations under heading of Low Grades were for Winter Superfine prior to 1889-90.

MONTHLY PRICES OF MILL FEED.

Range of monthly prices of Bran, Coarse Middlings and Fine Middlings, per ton, at Cincinnati, during the year 1898, as indicated :

MONTHS.	BRAN.	COARSE MIDDINGS.	FINE MIDDINGS.
January.....	\$11 00 @ 13 50	\$11 50 @ 13 25	\$12 00 @ 14 25
February.....	13 00 @ 13 50	13 00 @ 13 25	13 50 @ 14 25
March.....	13 25 @ 13 50	13 25 @ 13 50	13 50 @ 13 75
April.....	13 00 @ 13 50	13 25 @ 13 50	13 50 @ 13 75
May.....	12 75 @ 13 25	13 25 @ 13 50	13 50 @ 14 00
June.....	10 50 @ 13 00	10 75 @ 13 25	11 00 @ 13 50
July.....	11 00 @ 12 50	12 25 @ 12 50	12 75 @ 13 00
August.....	11 00 @ 11 50	12 00 @ 14 00	12 50 @ 14 00
September.....	8 50 @ 11 00	12 50 @ 14 00	13 50 @ 14 50
October.....	9 00 @ 11 50	12 00 @ 13 50	12 50 @ 14 00
November.....	11 00 @ 11 85	13 00 @ 13 50	13 50 @ 14 00
December.....	11 50 @ 11 85	12 50 @ 13 00	13 00 @ 13 50

PRICES OF BRAN AND MIDDINGS.

Quotations for Bran and for Middlings (fine), per ton, at Cincinnati, on Tuesday of each week, in three years:

BRAN.				MIDDINGS.			
DATES.	1898	1897	1896	DATES.	1898	1897	1896
January 4..	\$11 00	\$7 50@ 8 00	\$10 00@10 25	January 4..	\$12 00	\$9 00	\$11 00
11..	11 00	7 50@ 8 00	10 00@10 50	11..	12 00	9 00	11 00
18..	12 25	8 50@ 9 00	10 50@11 00	18..	18 00	9 50	11 00
25..	13 00@13 25	9 00@ 9 50	10 50@11 00	25..	14 25	10 00	11 00
February 1..	13 00@13 50	9 00@ 9 50	10 50@10 75	February 1..	14 25	10 00	10 75
8..	13 00@13 50	9 75@10 00	10 50@11 00	8..	13 50	10 00	11 00
15..	13 25@13 50	9 75@10 00	10 50@11 00	15..	13 50	10 00	11 00
22..	13 25@13 50	9 75@10 00	10 50@11 00	22..	13 50	10 00	11 00
March 1..	13 25@13 50	10 00@10 50	10 50@11 00	March 1..	13 50	10 50	11 00
8..	13 25@13 50	10 50@11 00	10 50@11 00	8..	13 50	11 00	11 00
15..	13 25@13 50	10 50@11 00	11 00@11 50	15..	13 75	11 00	11 50
22..	13 25@13 50	11 50@12 00	11 00@11 50	22..	13 75	12 00	11 50
29..	13 25@13 50	11 50@12 00	11 00@11 50	29..	13 75	12 00	11 50
April 5..	13 25@13 50	11 00@11 50	11 00@11 50	April 5..	13 75	11 50	11 50
12..	13 25@13 50	11 00	11 00@11 50	12..	13 75	11 50	11 50
19..	13 25@13 50	11 00	10 75@11 00	19..	13 75	11 50	11 00
26..	13 25@13 50	11 00	10 00@10 50	26..	13 75	11 50	10 50
May 3..	13 00	10 75	10 00@10 25	May 3..	13 50	11 25	10 25
10..	13 00@13 25	10 00@10 50	8 50@ 9 00	10..	14 00	10 50	9 00
17..	13 00@13 25	9 50	9 50	17..	14 00	10 25	10 00
24..	12 75@13 00	9 00	9 50	24..	13 50	10 00	10 00
31..	12 75@13 00	9 00	9 00@ 9 50	31..	13 50	10 00	9 50
June 7..	11 25@11 50	8 00	9 00@ 9 25	June 7..	11 75	9 00	9 50
14..	10 50	7 00@ 7 50	9 25	14..	11 00	8 00	9 50
21..	10 50	7 00@ 7 50	9 00	21..	11 00	8 00	9 50
28..	11 00@11 50	7 00@ 7 50	8 50@ 8 75	28..	13 00	8 00	9 25
5..	11 00@11 50	7 00@ 7 50	8 50@ 8 75	5..	13 00	8 00	9 00
12..	12 25@12 50	7 00@ 7 50	8 00@ 8 25	12..	13 00	8 00	8 25
19..	12 25@12 50	7 50@ 8 00	8 00@ 8 25	19..	13 00	8 50	8 25
26..	12 00	7 50@ 8 00	7 50@ 8 00	26..	12 75	8 50	8 00
August 2..	11 00	8 00@ 8 50	7 50@ 8 00	August 2..	12 50	9 00	8 00
9..	11 40	8 50	7 50@ 8 00	9..	12 50	9 50	8 00
16..	11 00	8 25@ 8 75	7 50	16..	12 50	9 25	8 00
23..	11 00@11 50	8 50@ 9 00	7 50@ 7 75	23..	14 50	9 50	8 00
30..	11 00	9 00@ 9 50	7 00	30..	14 50	10 50	7 50
September 6..	11 00	9 00@ 9 50	7 00	September 6..	14 50	11 00	7 25
13..	10 75	10 00@10 50	6 50	13..	14 50	12 00	7 75
20..	9 00@ 9 50	11 00	6 50	20..	13 50	12 00	7 75
27..	9 00@ 9 50	11 00	6 50@ 7 00	27..	13 50	12 00	7 75
October 4..	9 00@ 9 25	11 00	7 25	October 4..	12 50	12 00	8 25
11..	9 50@ 9 75	11 00	7 00	11..	12 50	13 50	9 00
18..	9 50@ 9 75	11 00	7 00@ 7 50	18..	12 50	13 50	9 00
25..	10 50@11 00	11 00	7 00@ 7 50	25..	14 00	13 50	9 00
November 1..	11 00@11 50	10 50	7 00@ 7 50	November 1..	14 00	13 50	9 00
8..	11 00@11 50	10 50@11 00	7 50	8..	14 00	13 50	9 00@9 25
15..	11 00@11 50	10 50	7 50@ 8 00	15..	13 50	12 50	9 00
22..	11 25@11 75	10 50	7 50@ 8 00	22..	13 50	12 50	9 00
29..	11 50@11 85	10 50@11 00	7 50@ 8 00	29..	13 50	12 50	9 00
December 6..	11 50@11 75	11 00	7 50@ 8 00	December 6..	13 50	12 75	9 00
13..	11 50@11 75	10 75@11 00	7 50@ 8 00	13..	13 00	12 75	9 00
20..	11 50@11 75	11 00	7 50@ 8 00	20..	13 00	12 00	9 00
27..	11 50@11 75	11 00	7 50@ 8 00	27..	13 00	12 00	9 00

EXPORTS OF FLOUR.

Yearly exports of Flour from the United States, representing barrels:

1886-87.....	11,518,000	1889-90.....	12,232,000	1892-93.....	16,620,000	1895-96.....	14,621,000
1887-88.....	11,963,000	1890-91.....	11,344,000	1893-94.....	16,860,000	1896-97.....	14,570,000
1888-89.....	9,375,000	1891-92.....	15,197,000	1894-95.....	15,269,000	1897-98.....	15,350,000

PRICES OF WHEAT FOR FIFTY-FIVE YEARS.

The following compilation shows the monthly average prices, the lowest and highest monthly averages for each year, and the annual average prices of Wheat, per bushel, at Cincinnati, 1844 to 1898, inclusive, for calendar years indicated; the figures representing dollars and cents:

YEARS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Lowest.	Highest.	Averages.
1844	75	77	75	75	69	60	59	68	70	66	70	70	59	77	69
1845	74	75	75	75	74	75	62	58	52	64	75	85	52	85	70
1846	75	73	80	65	56	50	45	48	52	63	68	58	45	80	60
1847	62	80	75	87	92	1 05	75	73	75	81	75	1 02	62	1 02	83
1848	94	83	90	90	85	75	62	64	75	74	75	75	62	94	78
1849	75	75	75	69	71	77	80	87	86	83	80	69	87	87	78
1850	90	92	92	93	98	1 10	98	75	70	70	68	58	68	1 10	86
1851	76	72	67	71	70	70	64	69	59	59	58	58	58	76	66
1852	59	56	62	62	61	63	62	59	60	60	66	75	59	75	62
1853	80	77	75	75	74	84	80	80	88	86	1 04	1 02	74	1 04	85
1854	1 14	1 33	1 25	1 31	1 60	1 41	1 04	1 31	1 42	1 32	1 46	1 52	1 04	1 60	1 34
1855	1 60	1 63	1 67	1 92	1 92	1 74	1 12	1 25	1 22	1 48	1 67	1 56	1 12	1 92	1 56
1856	1 41	1 31	1 16	1 10	1 12	1 00	1 02	1 11	1 13	1 16	1 10	1 11	1 00	1 41	1 14
1857	1 14	1 15	1 12	1 11	1 40	1 40	1 27	1 09	1 13	1 19	1 10	1 11	1 00	1 41	1 14
1858	75	74	72	72	73	74	76	80	1 04	94	96	1 04	72	1 04	88
1859	1 06	1 19	1 31	1 21	1 49	1 42	1 08	1 01	99	1 07	1 08	1 20	99	1 49	1 17
1860	1 23	1 30	1 29	1 32	1 35	1 19	1 05	98	1 06	1 08	99	91	91	1 35	1 15
1861	1 03	1 00	1 01	96	1 02	91	71	73	76	88	83	91	71	1 03	89
1862	83	93	93	90	90	80	71	70	69	77	78	76	69	93	81
1863	77	77	82	85	79	76	78	75	76	75	82	85	75	85	79
1864	86	82	80	82	86	76	76	79	88	87	87	87	72	89	82
1865	91	93	1 00	1 02	1 05	99	1 09	1 38	1 37	1 45	1 37	1 37	91	1 45	1 15
1866	1 43	1 63	1 73	1 92	2 04	1 80	1 64	1 65	1 78	1 92	1 98	2 04	1 43	2 04	1 80
1867	2 15	2 13	2 15	2 42	2 33	1 86	1 58	1 49	1 57	1 75	1 73	1 90	1 49	2 42	1 92
1868	1 83	1 81	1 79	1 80	1 70	1 57	1 43	1 38	1 35	1 35	1 30	1 31	1 30	1 83	1 56
1869	1 28	1 22	1 16	1 09	1 05	91	92	97	90	87	87	92	87	1 28	1 01
1870	93	92	96	99	96	1 06	1 06	1 03	1 00	1 01	1 03	1 05	92	1 06	1 00
1871	1 10	1 22	1 24	1 22	1 28	1 29	1 16	1 03	1 09	1 24	1 30	1 33	1 03	1 33	1 21
1872	1 38	1 43	1 47	1 56	1 75	1 52	1 31	1 12	1 30	1 33	1 32	1 39	1 12	1 75	1 41
1873	1 54	1 50	1 48	1 41	1 40	1 20	1 15	1 16	1 21	1 24	1 25	1 34	1 15	1 54	1 32
1874	1 33	1 26	1 26	1 27	1 20	1 12	99	91	86	91	94	94	86	1 33	1 08
1875	93	94	95	1 03	1 08	1 01	1 13	1 24	1 07	1 04	80	80	80	1 24	1 00
1876	98	94	92	92	89	85	71	67	69	92	1 03	1 20	67	1 20	89
1877	1 23	1 31	1 37	1 60	1 68	1 60	1 26	1 04	1 10	1 18	1 16	1 15	1 04	1 68	1 31
1878	1 12	1 12	1 08	1 11	1 08	89	78	87	88	85	85	85	88	1 12	96
1879	91	92	1 00	1 01	1 03	1 06	93	88	96	1 23	1 25	1 33	93	1 27	1 09
1880	1 27	1 26	1 27	1 15	1 12	1 08	95	93	94	1 01	1 05	1 02	93	1 27	1 04
1881	1 02	1 03	1 05	1 11	1 11	1 16	1 18	1 33	1 43	1 44	1 37	1 36	1 02	1 44	1 21
1882	1 41	1 30	1 30	1 36	1 32	1 32	1 11	1 01	96	98	97	97	96	1 41	1 17
1883	1 03	1 10	1 09	1 10	1 13	1 13	1 05	1 06	1 04	1 03	1 05	1 04	1 03	1 13	1 07
1884	1 02	1 05	1 04	1 03	1 05	1 00	88	81	78	80	77	74	74	1 05	91
1885	85	86	85	97	1 05	1 00	97	93	91	96	93	92	85	1 05	93
1886	93	93	91	88	82	79	76	76	76	76	76	80	76	93	82
1887	84	83	82	83	84	81	72	72	73	75	78	86	72	86	79
1888	88	86	86	87	93	90	85	85	89	1 06	1 04	1 01	85	1 06	92
1889	99	98	94	86	83	83	84	77	76	79	77	77	76	99	89
1890	77	77	78	84	94	88	87	98	98	99	95	97	77	99	89
1891	98	99	1 03	1 10	1 06	1 02	87	96	97	96	97	94	87	1 10	99
1892	93	95	92	90	87	84	76	75	72	69	71	69	69	95	81
1893	72	71	68	67	68	63	56	57	62	62	59	59	57	72	64
1894	59	57	56	57	53	56	52	51	51	50	53	54	50	59	54
1895	54	54	57	63	76	83	70	68	64	67	66	67	54	83	66
1896	70	75	73	73	67	63	58	61	64	78	89	94	58	94	72
1897	92	90	90	90	90	80	75	86	94	93	94	94	75	94	89
1898	94	97	97	99	1 24	91	77	70	67	68	69	69	67	1 24	86

NOTE.—From 1862 to 1878, inclusive, when currency was at a discount, the prices are computed on the basis of gold values.

WHEAT CROPS OF THE UNITED STATES.

Department of Agriculture estimates of Wheat production, representing bushels, in 1898, with comparisons for previous years indicated, arranged for Winter and Spring Wheat crops:

STATES.	1898	1897	1896	1895	1894	1893	1892
Ohio.....	42,103,000	38,049,000	21,800,000	32,215,000	48,445,000	38,917,000	38,022,000
Michigan.....	34,062,000	23,700,000	15,720,000	15,238,000	20,232,000	19,921,000	23,854,000
Indiana.....	38,426,000	32,675,000	20,647,000	20,294,000	43,644,000	35,579,000	39,885,000
Illinois.....	19,334,000	11,578,000	28,668,000	19,061,000	33,312,000	15,507,000	28,370,000
Missouri.....	14,105,000	14,104,000	16,595,000	18,500,000	23,354,000	15,288,000	24,834,000
Kansas.....	64,939,000	47,998,000	30,794,000	22,919,000	35,315,000	23,252,000	70,831,000
Kentucky.....	14,465,000	12,283,000	6,977,000	9,501,000	11,006,000	10,584,000	11,635,000
Tennessee.....	13,980,000	10,052,000	6,628,000	5,767,000	5,898,000	7,443,000	8,540,000
New York.....	8,086,000	7,375,000	6,350,000	7,301,000	6,297,000	6,846,000	8,405,000
New Jersey.....	2,168,000	2,155,000	1,555,000	1,341,000	1,779,000	1,794,000	1,787,000
Pennsylvania.....	26,610,000	28,260,000	17,737,000	20,456,000	18,849,000	18,351,000	19,331,000
Delaware.....	989,000	1,230,000	1,759,000	1,069,000	1,332,000	1,462,000	1,231,000
Maryland.....	11,740,000	12,277,000	7,879,000	7,801,000	7,313,000	6,722,000	6,992,000
Virginia.....	10,626,000	8,452,000	5,725,000	6,506,000	6,995,000	8,681,000	7,591,000
North Carolina.....	5,275,000	4,170,000	4,622,000	4,748,000	3,476,000	5,938,000	5,090,000
South Carolina.....	1,182,000	758,000	958,000	859,000	808,000	927,000	938,000
Georgia.....	2,607,000	1,634,000	1,700,000	1,331,000	1,627,000	1,733,000	1,474,000
Alabama.....	520,000	303,000	394,000	373,000	417,000	393,000	306,000
Mississippi.....	30,000	12,000	38,000	37,000	41,000	27,000	25,000
Texas.....	9,349,000	7,028,000	4,529,000	2,082,000	6,893,000	4,533,000	5,475,000
Arkansas.....	2,335,000	1,783,000	1,261,000	1,452,000	1,416,000	1,370,000	1,337,000
West Virginia.....	5,817,000	5,883,000	4,057,000	4,304,000	4,817,000	4,578,000	4,302,000
California.....	12,224,000	32,394,000	45,097,000	40,098,000	30,377,000	34,852,000	39,157,000
Oregon.....	24,708,000	18,155,000	10,247,000	11,463,000	10,441,000	10,791,000	9,779,000
Oklahoma.....	14,177,000	10,390,000	2,602,000	2,593,000	2,315,000	.....	.....
Winter.....	379,807,000	332,698,000	264,339,000	257,709,000	326,399,000	275,489,000	359,191,000
Minnesota.....	78,418,000	59,891,000	46,599,000	65,584,000	37,752,000	30,695,000	41,210,000
Wisconsin.....	13,690,000	7,691,000	8,899,000	8,616,000	9,366,000	8,664,000	8,814,000
Iowa.....	22,190,000	13,153,000	11,473,000	13,655,000	10,737,000	6,749,000	7,257,000
Nebraska.....	34,679,000	27,458,000	19,391,000	14,787,000	8,755,000	10,688,000	15,670,000
North Dakota.....	55,654,000	28,353,000	29,849,000	61,058,000	33,636,000	26,438,000	34,998,000
South Dakota.....	42,041,000	21,441,000	27,583,000	29,261,000	15,934,000	20,521,000	31,767,000
Colorado.....	6,730,000	5,117,000	2,797,000	2,808,000	2,144,000	1,817,000	2,504,000
Washington.....	23,453,000	20,124,000	8,358,000	7,196,000	9,108,000	9,884,000	9,005,000
Nevada.....	1,064,000	834,000	180,000	123,000	112,000	83,000	117,000
Idaho.....	4,197,000	2,708,000	2,404,000	1,222,000	1,567,000	1,515,000	1,693,000
Montana.....	2,100,000	2,268,000	1,204,000	1,065,000	1,112,000	934,000	898,000
New Mexico.....	4,587,000	4,283,000	818,000	809,000	692,000	665,000	515,000
Utah.....	5,105,000	3,191,000	2,804,000	2,444,000	2,360,000	1,458,000	1,775,000
Arizona.....	770,000	371,000	334,000	251,000	187,000	192,000	170,000
Wyoming.....	525,000	477,000	224,000	198,000	100,000	95,000	101,000
Maine.....	35,000	25,000	171,000	84,000	95,000	72,000	75,000
New Hampshire.....	10,000	8,000	51,000	48,000	46,000	35,000	38,000
Vermont.....	87,000	60,000	206,000	185,000	165,000	138,000	151,000
Massachusetts.....	.....	.....	.....	.....	.....	.....	.....
Connecticut.....	6,000	3,000	.....	.....	.....	.....	.....
Spring.....	295,341,000	197,451,000	168,345,000	209,394,000	183,868,000	120,643,000	156,758,000
Total crops.....	675,148,000	530,149,000	427,684,000	467,103,000	460,267,000	396,132,000	515,949,000
Total acres.....	44,055,000	39,465,000	34,618,000	34,047,000	34,882,000	34,629,000	38,554,000
Value.....	\$392,770,000	\$428,547,000	\$310,603,000	\$237,939,000	\$225,902,000	\$213,171,381	\$322,111,881
Yield per acre.....	15.3	13.4	12.4	13.7	13.2	11.4	13.4
Farm price.....	58.2	80.8	72.6	50.9	49.1	53.8	62.4

NOTE.—The average price relates only to December valuation, on which the aggregate value is based. The Wheat crops for recent years have been underestimated officially as indicated by distribution, and are unofficially estimated as follows: 1890, 430,000,000; 1891, 675,000,000; 1892, 550,000,000; 1893, 475,000,000; 1894, 515,000,000; 1895, 500,000,000; 1896, 450,000,000; 1897, 575,000,000 bushels.

CORN CROPS OF THE UNITED STATES.

Department of Agriculture estimates of Corn production, representing bushels, in 1898, with comparisons for previous years indicated :

STATES.	1898	1897	1896	1895	1894	1893	1892
Maine	436,000	366,000	547,000	597,000	530,000	411,000	472,000
New Hampshire	977,000	818,000	1,162,000	1,040,000	877,000	795,000	957,000
Vermont	1,984,000	1,583,000	1,994,000	2,153,000	1,835,000	1,429,000	1,643,000
Massachusetts	1,564,000	1,283,000	1,845,000	1,847,000	1,396,000	1,355,000	1,550,000
Rhode Island	263,000	263,000	301,000	285,000	281,000	218,000	305,000
Connecticut	1,658,000	1,426,000	1,773,000	1,768,000	1,404,000	1,288,000	1,518,000
New York	15,671,000	15,335,000	17,898,000	18,014,000	13,854,000	15,256,000	17,414,000
New Jersey	9,335,000	8,545,000	9,325,000	9,233,000	8,991,000	7,179,000	9,124,000
Pennsylvania	45,190,000	44,866,000	52,475,000	48,513,000	40,749,000	31,199,000	39,632,000
Delaware	5,220,000	6,373,000	4,934,000	4,281,000	4,397,000	4,917,000	3,775,000
Maryland	18,164,000	20,354,000	19,936,000	16,531,000	14,268,000	15,078,000	12,965,000
Virginia	38,756,000	31,552,000	38,068,000	32,607,000	32,196,000	31,234,000	26,067,000
North Carolina	34,070,000	31,324,000	29,504,000	36,378,000	32,960,000	29,954,000	25,347,000
South Carolina	17,519,000	15,908,000	15,781,000	19,861,000	18,729,000	12,501,000	16,713,000
Georgia	26,587,000	32,173,000	32,830,000	42,172,000	35,144,000	33,678,000	32,992,000
Florida	4,244,000	3,811,000	4,861,000	6,187,000	5,214,000	4,909,000	4,422,000
Alabama	39,682,000	30,524,000	32,445,000	44,376,000	34,760,000	28,329,000	30,666,000
Mississippi	39,931,000	30,346,000	27,973,000	35,977,000	35,931,000	25,817,000	27,272,000
Louisiana	23,758,000	21,576,000	15,565,000	22,574,000	17,880,000	15,216,000	15,859,000
Texas	105,337,000	72,175,000	32,229,000	107,906,000	69,339,000	61,171,000	73,642,000
Arkansas	45,565,000	35,581,000	29,724,000	50,360,000	38,438,000	32,111,000	34,344,000
Tennessee	76,468,000	63,673,000	71,893,000	83,133,000	68,060,000	63,650,000	61,274,000
West Virginia	20,329,000	17,004,000	21,689,000	16,663,000	12,612,000	14,089,000	14,322,000
Kentucky	85,177,000	64,486,000	80,932,000	93,939,000	67,892,000	68,008,000	68,805,000
Ohio	102,828,000	92,166,000	123,692,000	92,783,000	61,974,000	64,487,000	83,853,000
Michigan	38,341,000	31,201,000	40,042,000	33,600,000	21,757,000	21,791,000	23,218,000
Indiana	129,154,000	109,825,000	133,468,000	121,436,000	96,888,000	85,369,000	103,334,000
Illinois	199,960,000	232,928,000	284,573,000	255,137,000	169,122,000	160,551,000	165,327,000
Wisconsin	35,327,000	33,645,000	38,890,000	33,094,000	16,292,000	28,956,000	27,347,000
Minnesota	30,532,000	25,841,000	34,447,000	35,957,000	18,933,000	25,104,000	24,192,000
Iowa	255,000,000	220,089,000	321,719,000	298,503,000	81,344,000	251,832,000	200,221,000
Missouri	154,731,000	171,924,000	176,769,000	238,072,000	116,012,000	158,198,000	152,489,000
Kansas	182,842,000	162,443,000	247,734,000	204,760,000	41,798,000	139,457,000	145,825,000
Nebraska	158,755,000	241,268,000	298,600,000	125,685,000	13,856,000	157,279,000	157,145,000
South Dakota	28,110,000	23,856,000	31,137,000	12,423,000	1,490,000	20,512,000	17,706,000
North Dakota	462,000	426,000	975,000	659,000	464,000	417,000	375,000
Montana	45,000	19,000	35,000	33,000	38,000	30,000	21,000
Wyoming	40,000	28,000	62,000	68,000	68,000	38,000	34,000
Colorado	3,114,000	3,354,000	2,853,000	3,691,000	2,474,000	2,031,000	2,773,000
New Mexico	509,000	662,000	388,000	733,000	452,000	636,000	585,000
Arizona .....	.....	.....	.....	133,000	85,000	82,000	81,000
Utah	169,000	187,000	216,000	181,000	209,000	184,000	158,000
Idaho .....	.....	.....	.....	51,000	45,000	32,000	26,000
Washington	68,000	117,000	96,000	93,000	110,000	179,000	185,000
Oregon	328,000	331,000	298,000	354,000	234,000	324,000	288,000
California	1,184,000	1,913,000	2,203,000	2,257,000	1,288,000	2,275,000	2,197,000
Total crops...	1,924,184,000	1,902,968,000	2,283,875,000	2,151,138,000	1,212,770,000	1,619,496,000	1,628,464,000
Total acres...	77,722,000	80,095,000	81,027,000	82,076,000	62,582,000	72,036,465	70,626,658
Value	\$552,023,000	\$501,073,000	\$491,007,000	\$567,509,000	\$554,719,000	\$591,625,627	\$642,146,630
Yield per acre...	24.7	23.7	28.2	26.2	19.3	22.5	23.1
Farm price.....	28.7	26.3	21.5	26.4	45.7	36.5	39.3

NOTE.—The average price relates only to December valuation, on which the aggregate value is based.

OATS CROPS OF THE UNITED STATES.

Department of Agriculture estimates of Oats production, representing bushels, in 1898, with comparisons for previous years indicated :

STATES.	1898	1897	1896	1895	1894	1893	1892
Maine.....	5,048,000	4,140,000	5,870,000	5,552,000	4,294,000	4,474,000	4,009,000
New Hampshire.....	1,008,000	1,058,000	1,161,000	1,094,000	895,000	985,000	960,000
Vermont.....	4,107,000	3,487,000	4,716,000	5,101,000	3,720,000	3,967,000	3,784,000
Massachusetts.....	484,000	489,000	550,000	550,000	497,000	524,000	460,000
Rhode Island.....	99,000	118,000	113,000	122,000	113,000	117,000	123,000
Connecticut.....	568,000	609,000	641,000	742,000	606,000	598,000	619,000
New York.....	38,727,000	45,963,000	49,916,000	45,666,000	30,321,000	30,209,000	38,729,000
New Jersey.....	1,928,000	2,556,000	3,621,000	3,819,000	3,086,000	2,623,000	3,066,000
Pennsylvania.....	27,099,000	31,842,000	36,087,000	36,536,000	26,227,000	30,601,000	29,664,000
Delaware.....	387,000	412,000	548,000	469,000	428,000	535,000	428,000
Maryland.....	1,527,000	1,938,000	2,040,000	2,320,000	2,016,000	1,939,000	1,629,000
Virginia.....	6,881,000	5,233,000	8,492,000	8,125,000	5,401,000	8,378,000	5,472,000
North Carolina.....	6,539,000	5,821,000	5,777,000	7,652,000	5,754,000	7,673,000	5,332,000
South Carolina.....	4,206,000	3,830,000	2,956,000	4,390,000	4,078,000	3,931,000	3,682,000
Georgia.....	7,196,000	5,518,000	5,065,000	6,679,000	7,527,000	7,948,000	6,090,000
Florida.....	623,000	396,000	550,000	406,000	644,000	602,000	463,000
Alabama.....	5,883,000	3,830,000	4,455,000	5,210,000	4,910,000	5,336,000	3,721,000
Mississippi.....	2,406,000	1,671,000	1,599,000	2,077,000	1,849,000	2,250,000	1,554,000
Louisiana.....	662,000	665,000	845,000	576,000	785,000	547,000	421,000
Texas.....	21,122,000	16,311,000	12,669,000	14,569,000	20,013,000	14,771,000	15,177,000
Arkansas.....	7,230,000	5,285,000	5,075,000	8,307,000	5,990,000	6,009,000	4,988,000
Tennessee.....	6,755,000	3,843,000	7,205,000	10,235,000	6,511,000	9,769,000	7,466,000
West Virginia.....	2,911,000	3,142,000	3,848,000	3,539,000	2,885,000	3,739,000	2,871,000
Kentucky.....	9,466,000	7,842,000	10,516,000	13,252,000	10,313,000	12,979,000	10,917,000
Ohio.....	27,724,000	29,907,000	32,554,000	31,405,000	29,143,000	27,236,000	26,364,000
Michigan.....	27,783,000	22,940,000	30,079,000	23,265,000	24,430,000	23,177,000	27,909,000
Indiana.....	31,939,000	33,707,000	34,433,000	25,896,000	35,809,000	32,092,000	29,175,000
Illinois.....	88,304,000	92,798,000	84,582,000	73,707,000	109,050,000	83,842,000	75,063,000
Wisconsin.....	64,643,000	62,125,000	65,258,000	63,020,000	57,870,000	46,690,000	50,572,000
Minnesota.....	56,298,000	41,147,000	56,766,000	77,995,000	50,860,000	41,562,000	43,573,000
Iowa.....	123,428,000	103,721,000	105,642,000	182,967,000	96,557,000	95,448,000	95,841,000
Missouri.....	15,866,000	22,078,000	19,851,000	30,548,000	25,441,000	29,084,000	24,093,000
Kansas.....	26,689,000	38,680,000	23,809,000	30,076,000	25,706,000	29,195,000	44,094,000
Nebraska.....	56,245,000	51,731,000	34,093,000	39,912,000	19,747,000	23,989,000	43,131,000
South Dakota.....	16,127,000	13,648,000	17,957,000	18,155,000	5,993,000	16,460,000	18,472,000
North Dakota.....	15,061,000	11,397,000	11,239,000	19,068,000	14,115,000	10,752,000	12,510,000
Montana.....	2,478,000	2,590,000	3,051,000	2,446,000	2,686,000	2,277,000	1,910,000
Wyoming.....	414,000	479,000	417,000	581,000	507,000	400,000	438,000
Colorado.....	3,063,000	2,969,000	2,601,000	3,389,000	1,258,000	2,797,000	2,836,000
New Mexico.....	271,000	259,000	221,000	394,000	345,000	327,000	225,000
Utah.....	970,000	838,000	958,000	925,000	878,000	790,000	735,000
Idaho.....	1,282,000	1,047,000	1,302,000	1,102,000	1,067,000	734,000	714,000
Washington.....	3,270,000	3,823,000	3,018,000	3,672,000	3,198,000	3,444,000	3,184,000
Oregon.....	4,954,000	5,756,000	3,854,000	7,241,000	6,455,000	6,625,000	6,484,000
California.....	1,943,000	1,029,000	1,827,000	1,690,000	2,059,000	1,505,000	1,987,000
Total crops.....	730,906,000	698,768,000	707,946,000	824,443,000	662,037,000	638,855,000	661,035,000
Total acres.....	25,777,000	25,730,000	27,566,000	27,878,000	27,023,000	27,273,033	27,063,835
Value.....	\$186,405,000	\$147,975,000	\$132,485,000	\$163,655,000	\$214,817,000	\$187,576,092	\$209,253,611
Yield per acre.....	28.3	27.1	25.7	29.6	24.5	23.4	24.4
Farm price.....	25.6	21.2	18.7	19.9	32.4	29.4	31.6

NOTE.—The average price relates only to December valuation, on which the aggregate value is based.

BARLEY, RYE AND BUCKWHEAT CROPS.

Department of Agriculture estimates of the crops of Barley, Rye and Buckwheat, in bushels, by States enumerated, for two years:

STATES.	BARLEY.		RYE.		BUCKWHEAT.	
	1896	1897	1896	1897	1896	1897
Maine.....	326,948	305,775	17,514	13,270	635,841	848,260
New Hampshire.....	115,502	112,838	17,028	17,694	59,520	77,274
Vermont.....	582,170	500,546	61,846	51,296	217,445	248,856
Massachusetts.....	41,944	59,650	144,928	178,182	45,080	45,087
Rhode Island.....	8,904	8,736	.....	.....	.....	.....
Connecticut.....	.....	.....	259,056	276,203	65,759	60,044
New York.....	4,341,985	4,786,075	4,014,395	4,467,140	4,068,108	5,667,310
New Jersey.....	.....	.....	1,066,121	1,218,016	223,335	182,976
Pennsylvania.....	171,288	218,491	4,447,094	5,355,226	4,085,499	5,083,488
Delaware.....	.....	.....	.....	.....	5,296	6,282
Maryland.....	.....	.....	389,252	480,386	92,549	141,308
Virginia.....	.....	.....	442,210	438,702	82,331	67,298
North Carolina.....	.....	.....	478,578	436,603	31,005	16,049
South Carolina.....	.....	.....	33,516	26,829	.....	.....
Georgia.....	.....	.....	183,096	121,893	.....	.....
Florida.....	.....	.....	.....	.....	.....	.....
Alabama.....	.....	.....	21,745	18,998	.....	.....
Mississippi.....	.....	.....	.....	.....	.....	.....
Louisiana.....	.....	.....	.....	.....	.....	.....
Texas.....	41,480	51,325	49,116	46,332	.....	.....
Arkansas.....	.....	.....	24,077	23,463	.....	.....
Tennessee.....	34,822	35,514	138,736	148,460	21,546	22,680
West Virginia.....	.....	.....	157,618	163,472	299,280	288,933
Kentucky.....	22,320	32,820	345,397	356,083	.....	.....
Ohio.....	624,742	674,338	756,826	850,446	198,220	193,914
Michigan.....	1,046,783	1,014,864	1,498,004	1,579,800	360,197	552,840
Indiana.....	104,864	96,292	651,744	607,360	94,318	79,744
Illinois.....	351,242	345,850	1,057,593	1,217,159	70,182	69,329
Wisconsin.....	7,515,599	7,860,328	3,444,596	3,638,576	544,902	735,804
Minnesota.....	9,160,136	9,241,328	1,182,522	1,012,409	196,805	258,706
Iowa.....	9,138,020	9,163,560	1,177,126	1,113,776	212,720	275,638
Missouri.....	15,820	15,181	158,549	170,868	40,290	38,640
Kansas.....	735,840	306,600	1,710,306	1,550,388	.....	.....
Nebraska.....	1,092,320	943,360	1,104,650	1,008,984	68,774	77,546
South Dakota.....	2,484,897	2,182,600	48,439	44,996	.....	.....
North Dakota.....	5,252,755	4,663,305	24,480	23,896	.....	.....
Montana.....	188,640	197,144	.....	.....	.....	.....
Wyoming.....	.....	.....	.....	.....	.....	.....
Colorado.....	333,952	338,492	47,484	39,180	.....	.....
New Mexico.....	87,856	38,318	.....	.....	.....	.....
Arizona.....	.....	.....	.....	.....	.....	.....
Utah.....	208,088	183,520	67,996	42,696	.....	.....
Nevada.....	.....	.....	.....	.....	.....	.....
Idaho.....	386,190	378,630	.....	.....	.....	.....
Washington.....	1,484,978	1,695,960	42,552	48,028	.....	.....
Oregon.....	812,906	955,760	82,526	82,665	3,430	4,500
California.....	9,164,746	20,277,927	860,711	493,905	.....	.....
Total crops.....	55,792,257	66,685,127	25,657,522	27,863,324	11,721,927	14,997,451
Total acres.....	2,583,125	2,719,116	1,643,207	1,708,561	678,332	717,836
Value.....	\$23,064,359	\$25,142,139	\$11,875,350	\$12,239,647	\$5,271,462	\$6,319,188
Yield per acre.....	21.6	24.5	15.6	16.1	17.3	20.9
Farm price.....	41.4	37.7	46.8	44.7	45.0	42.1

NOTE.—Comparisons of total production for a series of years will be found in other tabular exhibits elsewhere in this report.

FARMERS' STOCKS OF WHEAT.

Department of Agriculture estimates showing stocks of Wheat, representing bushels, in farmers' hands on March 1, with comparisons for previous years indicated, arranged for Winter and Spring Wheat crops, by principal States, etc.:

STATES.	1899	1898	1897	1896	1895	1894	1893
Ohio.....	13,894,000	10,858,700	5,014,000	10,809,120	10,178,240	13,620,950	9,885,720
Indiana.....	10,759,800	6,861,800	3,510,100	5,073,500	6,546,800	9,250,540	11,167,800
Illinois.....	8,673,500	1,736,700	4,586,900	4,198,420	5,663,040	4,081,820	7,659,900
Missouri.....	3,103,000	2,679,800	2,821,100	4,810,000	3,736,640	4,127,760	6,705,180
Kansas.....	18,183,000	8,639,800	4,927,100	4,583,800	3,884,650	5,115,440	17,707,750
Michigan.....	11,921,600	6,162,000	3,772,800	4,419,020	4,451,040	5,976,300	6,917,660
Kentucky.....	3,616,400	2,579,500	1,046,500	2,185,230	2,091,140	2,857,680	2,906,750
Tennessee.....	3,355,200	2,111,000	1,325,700	1,211,070	1,061,640	2,009,610	2,806,800
8 Winter States	68,506,000	41,424,160	27,004,200	36,785,160	37,607,990	46,990,100	65,258,560
Minnesota.....	24,309,600	14,972,800	12,115,700	19,675,200	6,040,320	7,673,750	12,363,000
The Dakotas.....	28,458,900	8,257,700	12,820,300	19,552,210	5,771,380	9,419,500	14,241,380
Iowa.....	8,875,800	3,551,800	3,556,700	6,008,200	2,862,140	2,862,150	2,685,080
Nebraska.....	11,444,200	6,863,200	5,429,400	5,619,080	1,225,700	8,847,680	4,701,000
Wisconsin.....	5,612,900	2,807,200	3,025,600	3,791,040	2,154,180	2,429,920	3,064,900
6 Spring States	73,701,400	35,952,200	36,947,700	54,645,710	17,558,720	25,733,000	37,075,380
Total, 14 States..	142,207,400	77,876,300	63,951,900	91,430,870	55,161,710	72,723,100	102,333,940
Middle & N. Eng.	12,855,000	12,716,000	8,498,000	11,807,690	6,259,080	12,216,850	9,641,490
Southern.....	12,037,400	9,685,000	6,362,400	7,478,260	5,480,670	9,943,640	8,113,350
Other, etc.....	30,956,700	21,543,200	9,386,800	12,828,470	8,098,330	19,175,970	15,116,650
Total, sundry..	55,849,100	43,944,000	24,197,200	31,614,420	19,838,080	41,336,460	32,871,490
Total, Eastern...	174,978,800	108,647,700	81,076,200	112,630,620	68,602,950	96,324,880	121,758,240
Total, Pacific....	23,077,700	17,672,800	9,072,900	10,414,670	6,396,840	17,734,680	13,447,190
Aggregates.....	198,056,500	121,320,500	88,149,100	123,045,290	74,999,790	114,059,560	135,205,430
Total crops.....	675,149,000	530,149,000	427,684,000	467,103,000	460,267,000	396,132,000	515,949,000

NOTE.—The 1895, 1897 and 1898 estimates were manifestly much too low.

FARMERS' STOCKS OF CORN.

Department of Agriculture estimates showing stocks of Corn, representing bushels, in farmers' hands on March 1, with details and totals for Western States and totals for all other States, with comparisons for previous years indicated:

STATES.	1899	1898	1897	1896	1895	1894	1893
Ohio.....	38,046,000	35,023,000	61,846,000	37,113,200	25,910,640	22,570,450	29,348,550
Indiana.....	50,370,000	40,635,000	69,403,500	55,860,560	33,910,800	27,318,080	36,166,900
Illinois.....	81,984,000	102,488,000	156,515,000	132,671,240	74,413,680	56,192,500	61,170,990
Iowa.....	114,750,000	99,040,000	193,031,700	164,176,650	22,776,320	106,769,440	84,092,820
Missouri.....	55,708,000	61,893,000	83,081,300	138,081,760	38,283,960	56,961,280	51,846,260
Kansas.....	42,509,000	58,479,000	121,389,700	100,332,400	8,369,600	34,864,250	48,122,250
Nebraska.....	66,677,000	118,222,000	176,173,800	57,815,100	3,186,880	56,620,440	69,143,800
Minnesota.....	11,297,000	8,786,000	15,501,100	17,618,980	5,301,240	8,033,280	7,983,360
The Dakotas.....	12,152,000	8,895,000	18,925,800	4,186,240	221,290	7,430,190	5,209,740
Wisconsin.....	12,718,000	10,430,000	17,111,600	11,582,900	3,584,240	9,265,920	8,204,100
Michigan.....	11,002,000	9,984,000	18,819,700	11,084,000	6,744,670	4,794,020	6,036,680
Kentucky.....	38,330,000	26,439,000	36,419,500	46,969,500	25,120,040	26,523,120	23,393,700
Tennessee.....	34,410,000	28,016,000	30,195,200	43,229,160	28,585,200	26,096,500	26,960,560
Totals.....	569,948,000	608,330,000	998,413,900	820,725,640	276,398,550	442,429,470	457,679,710
Other, etc.....	230,585,000	174,540,000	165,992,000	251,548,060	199,166,880	143,386,880	169,167,660
Aggregates.....	800,533,000	782,870,000	1,164,405,900	1,072,273,700	475,565,430	585,816,350	626,847,370
Total crops.....	1,924,185,000	1,902,968,000	2,283,875,000	2,151,139,000	1,212,770,000	1,619,494,000	1,628,464,000

FARMERS' STOCKS OF GRAIN.

Department of Agriculture estimates showing stocks of Wheat and Corn, representing bushels, in farmers' hands March 1, for years indicated:

YEARS.	WHEAT.	CORN.	YEARS.	WHEAT.	CORN.
1882.....	96,000,000	.....	1891.....	112,000,000	542,000,000
1883.....	143,000,000	587,000,000	1892.....	171,000,000	860,000,000
1884.....	119,000,000	512,000,000	1893.....	135,000,000	627,000,000
1885.....	169,000,000	675,000,000	1894.....	114,000,000	586,000,000
1886.....	107,000,000	773,000,000	1895.....	75,000,000	475,000,000
1887.....	122,000,000	603,000,000	1896.....	123,000,000	1,072,000,000
1888.....	132,000,000	508,000,000	1897.....	88,000,000	1,164,000,000
1889.....	112,000,000	787,000,000	1898.....	121,000,000	788,000,000
1890.....	156,000,000	970,000,000	1899.....	198,000,000	800,500,000

OATS.—1897, 313,000,000; 1898, 272,000,000; 1899, 283,000,000 bushels.

CENSUS ESTIMATES OF CROPS IN 1889.

Crops produced in the United States in 1889, according to Census Office estimates, showing acreage and yield, as indicated:

CROPS.	Quantity.	Acres.	CROPS.	Quantity.	Acres.
Wheat, bushels.....	468,373,968	33,579,514	Cotton, bales.....	7,471,116	20,172,896
Corn, bushels.....	2,122,327,547	72,087,752	Tobacco, pounds.....	488,256,646	695,301
Oats, bushels.....	809,250,666	28,320,677	Hay, etc., tons.....	68,321,710	54,444,513
Barley, bushels.....	78,332,976	3,220,834	Hops, pounds.....	39,171,270	50,212
Rye, bushels.....	28,421,398	2,171,604	Cane Sugar, pounds...	302,731,896	.....
Buckwheat, bushels.....	12,110,349	837,164	Rice, pounds.....	128,590,334	161,312
Flaxseed, bushels.....	10,250,410	1,318,698	Peanuts, bushels.....	3,484,979	201,484

UNITED STATES WHEAT STATISTICS.

Compilation from official data, showing the annual harvested acreage of Wheat, average yield in measured bushels per acre, total production, estimated farm price in December, and exports for years ending June 30, together with range of cash prices of No. 2 Spring Wheat at Chicago, in the months of December and May of each crop year:

YEARS.	Acres Harvested.	Yield per Acre.	Production, bushels.	Farm Price.	Chicago Price, December.	Chicago Price, May.	Exported, bushels.
1884-85.....	39,476,000	13.0	512,764,000	65.0	69 1/4 @ 76 3/4	85 1/4 @ 90 3/4	132,570,000
1885-86.....	34,189,000	10.4	357,112,000	77.0	82 1/2 @ 89	72 1/2 @ 79	94,565,000
1886-87.....	36,806,000	12.4	457,218,000	68.7	75 1/2 @ 79 1/2	80 1/2 @ 88 1/2	153,805,000
1887-88.....	37,642,000	12.1	456,329,000	68.1	75 1/2 @ 79 1/2	81 1/2 @ 89 1/2	119,625,000
1888-89.....	37,386,000	11.1	415,868,000	87.3	96 1/2 @ 105 1/2	77 1/2 @ 95 1/2	88,601,000
1889-90.....	38,124,000	12.9	490,560,000	69.8	76 1/2 @ 80 1/2	82 1/2 @ 100	109,430,000
1890-91.....	36,087,000	11.1	399,262,000	83.8	87 1/2 @ 93	98 1/2 @ 108	108,181,000
1891-92.....	39,917,000	15.3	611,780,000	88.9	89 1/2 @ 93 1/2	80 @ 85 1/2	225,666,000
1892-93.....	38,554,000	13.4	515,949,000	62.4	69 1/2 @ 73	68 1/2 @ 76 1/2	191,832,000
1893-94.....	34,629,000	11.4	396,132,000	53.8	59 1/2 @ 64 1/2	52 1/2 @ 60 1/2	164,283,000
1894-95.....	34,882,000	13.2	460,267,000	49.1	52 1/2 @ 63 1/2	60 1/2 @ 65 1/2	144,813,000
1895-96.....	34,047,000	13.7	467,103,000	50.9	53 1/2 @ 64 1/2	57 1/2 @ 67 1/2	126,444,000
1896-97.....	34,618,000	12.4	427,684,000	72.6	74 1/2 @ 93 1/2	68 1/2 @ 97 1/2	145,125,000
1897-98.....	39,465,000	13.4	530,149,000	80.8	92 @ 109	1 1/2 @ 1 85	217,806,000
1898-99.....	44,066,000	15.3	675,148,000	58.2	62 1/2 @ 70	.....	.....

UNITED STATES CEREAL PRODUCTION.

Department of Agriculture estimates of yearly production of Cereal Crops, and aggregates, representing bushels, for years indicated :

YEARS.	WHEAT.	CORN.	OATS.	RYE.	BARLEY.	BUCKWHEAT.	TOTAL.
1876.....	289,356,000	1,283,827,000	320,884,000	20,375,000	38,711,000	9,669,000	1,962,822,000
1877.....	361,194,000	1,342,558,000	406,394,000	21,170,000	34,441,000	10,177,000	2,178,994,000
1878.....	420,122,000	1,388,219,000	418,578,000	25,848,000	42,246,000	12,247,000	2,302,255,000
1879.....	448,757,000	1,547,802,000	368,761,000	23,639,000	40,283,000	18,140,000	2,487,462,000
1880.....	498,550,000	1,717,435,000	417,885,000	24,541,000	45,161,000	14,618,000	2,718,194,000
1881.....	388,280,000	1,194,916,000	416,481,000	20,705,000	41,161,000	9,486,000	2,066,029,000
1882.....	504,185,000	1,617,025,000	489,251,000	29,960,000	48,954,000	11,019,000	2,699,394,000
1883.....	420,155,000	1,561,067,000	571,302,000	28,059,000	50,136,000	7,669,000	2,628,338,000
1884.....	512,764,000	1,736,528,000	583,628,000	28,640,000	61,203,000	11,116,000	2,992,879,000
1885.....	357,112,000	1,936,176,000	629,409,000	21,756,000	58,360,000	12,626,000	3,015,453,000
1886.....	457,218,000	1,656,441,000	624,134,000	24,489,000	59,428,000	11,869,000	2,842,579,000
1887.....	456,329,000	1,456,761,000	659,618,000	20,686,000	56,812,000	10,884,000	2,660,497,000
1888.....	415,868,000	1,987,790,000	701,735,000	28,415,000	63,884,000	12,050,000	3,209,762,000
1889.....	490,560,000	2,112,892,000	751,735,000	30,000,000	78,000,000	12,000,000	3,475,700,000
1890.....	399,262,000	1,449,970,000	523,621,000	28,000,000	68,000,000	11,000,000	2,520,000,000
1891.....	611,790,000	2,060,154,000	738,394,000	33,000,000	80,000,000	12,000,000	3,535,000,000
1892.....	515,949,000	1,626,464,000	661,035,000	30,000,000	72,000,000	11,000,000	2,918,000,000
1893.....	396,132,000	1,619,496,000	634,855,000	26,555,000	69,869,000	12,132,000	2,763,039,000
1894.....	460,267,000	1,212,770,000	662,037,000	26,727,000	61,400,000	12,668,000	2,435,869,000
1895.....	467,103,000	2,151,138,000	824,443,000	27,210,000	87,073,000	15,341,000	3,572,308,000
1896.....	427,684,000	2,283,875,000	707,346,000	24,369,000	69,683,000	14,099,000	3,512,969,000
1897.....	530,149,000	1,902,968,000	698,768,000	27,363,000	66,685,000	14,997,000	3,240,930,000
1898.....	675,149,000	1,924,185,000	730,905,000	25,657,000	55,792,000	11,722,000	3,423,410,000

NOTE.—For Rye, Barley and Buckwheat, no official figures for 1888 to 1892, inclusive, and approximations are given for these.

Department of Agriculture estimates of acreage of Cereal Crops :

YEARS.	WHEAT.	CORN.	OATS.	RYE.	BARLEY.	BUCKWHEAT.	TOTAL.
1886.....	36,806,200	75,694,200	23,658,500	2,129,900	2,652,900	917,900	141,859,600
1887.....	37,641,800	72,392,700	25,920,900	2,053,400	2,902,000	910,500	141,821,300
1888.....	37,336,100	75,672,700	26,998,300	2,364,800	2,996,400	912,600	146,280,900
1889.....	38,123,800	78,319,600	27,462,300	.....	.....	.....	.....
1890.....	36,087,154	71,970,763	26,431,369	.....	.....	.....	.....
1891.....	39,916,897	76,204,515	25,581,861	.....	.....	.....	.....
1892.....	38,554,430	70,626,658	27,063,835	.....	.....	.....	.....
1893.....	34,029,418	72,036,465	27,273,033	2,038,435	3,220,371	815,614	140,013,336
1894.....	34,842,436	662,582,000	27,023,553	1,944,780	3,170,602	789,232	130,392,603
1895.....	34,047,332	82,075,830	27,878,406	1,890,345	3,299,973	768,277	149,955,168
1896.....	34,618,646	81,027,156	27,565,985	1,831,000	2,351,000	755,000	148,748,787
1897.....	39,465,066	80,095,031	25,730,375	1,703,561	2,917,116	717,836	150,431,005
1898.....	44,055,278	77,721,781	25,777,110	1,643,207	2,343,125	678,332	152,458,883

* Area planted, 76,000,000 acres; about 14,000,000 acres in Kansas, Nebraska and Iowa not harvested.

Estimated farm value of Cereal Crops, basis of December prices :

YEARS.	WHEAT.	CORN.	OATS.	RYE.	BARLEY.	BUCKWHEAT.	TOTAL.
1886.....	\$314,226,000	\$610,311,000	\$186,137,900	\$13,181,300	\$31,840,500	\$6,465,100	\$1,162,161,800
1887.....	310,612,900	646,106,800	200,699,800	11,283,100	29,464,400	6,122,300	1,204,289,300
1888.....	285,248,000	677,561,600	195,424,200	16,721,900	37,672,000	7,627,600	1,320,256,300
1889.....	342,401,700	597,918,800	171,781,000	.....	.....	.....	.....
1890.....	334,773,678	754,433,851	222,048,486	.....	.....	.....	.....
1891.....	513,472,711	836,439,228	232,312,267	.....	.....	.....	.....
1892.....	822,111,881	642,146,630	209,253,611	.....	.....	.....	.....
1893.....	213,171,381	591,625,627	187,576,092	13,612,222	28,728,386	7,074,450	1,041,789,158
1894.....	225,902,025	654,719,000	214,816,920	13,394,476	27,184,127	7,040,238	1,043,006,736
1895.....	237,938,938	567,509,106	163,555,068	11,964,826	29,312,413	6,326,325	1,017,316,736
1896.....	310,608,000	491,007,000	132,485,000	9,961,000	22,491,000	5,522,000	972,069,000
1897.....	426,547,121	501,072,952	147,974,719	12,239,647	25,142,139	6,319,188	1,121,296,766
1898.....	392,770,320	562,023,428	186,405,364	11,875,350	23,064,369	5,271,462	1,171,410,233

POTATO AND HAY CROPS.

Department of Agriculture estimates of the crops of Potatoes, in bushels, and Hay, in tons, by States enumerated:

STATES.	POTATOES.		HAY.	
	1898	1897	1898	1897
Maine.....	5,972,980	2,464,371	1,184,058	1,053,774
New Hampshire.....	1,696,500	881,994	787,981	692,689
Vermont.....	2,697,030	1,664,810	1,260,505	1,107,960
Massachusetts.....	2,668,955	1,565,066	855,922	819,298
Rhode Island.....	853,005	681,120	88,814	84,035
Connecticut.....	2,530,900	1,301,616	616,714	553,852
New York.....	24,300,605	21,060,098	6,419,462	6,009,899
New Jersey.....	3,491,850	2,878,100	574,136	700,556
Pennsylvania.....	9,311,814	10,650,780	3,744,019	3,690,439
Delaware.....	251,664	302,100	71,684	70,834
Maryland.....	1,274,434	1,504,108	353,740	390,154
Virginia.....	2,434,332	2,120,116	720,077	592,114
North Carolina.....	1,080,844	1,075,470	224,135	165,634
South Carolina.....	260,500	263,835	238,110	137,795
Georgia.....	305,154	267,124	199,222	167,049
Florida.....	116,032	97,125	10,006	6,383
Alabama.....	482,406	362,175	100,755	78,461
Mississippi.....	418,174	347,274	107,540	82,125
Louisiana.....	688,740	559,552	54,438	46,031
Texas.....	1,047,150	789,730	471,448	427,203
Arkansas.....	1,964,922	1,327,645	215,980	186,042
Tennessee.....	1,427,555	1,168,200	414,798	409,154
West Virginia.....	2,256,428	2,058,672	784,140	680,590
Kentucky.....	2,647,360	2,004,268	493,278	410,334
Ohio.....	10,404,892	7,310,226	2,453,136	2,619,978
Michigan.....	14,104,739	12,602,880	1,936,591	2,100,699
Indiana.....	6,672,964	3,003,621	2,364,442	2,399,544
Illinois.....	11,525,360	6,450,120	3,178,732	2,602,541
Wisconsin.....	18,020,656	14,731,992	2,257,326	1,972,420
Minnesota.....	9,380,115	11,443,780	2,764,256	2,378,537
Iowa.....	16,369,360	12,036,300	7,908,159	6,711,809
Missouri.....	6,320,358	4,104,114	3,578,110	2,546,304
Kansas.....	6,906,130	4,882,080	4,655,016	4,053,605
Nebraska.....	9,148,425	9,076,053	3,223,379	3,069,885
South Dakota.....	3,979,224	5,093,202	2,655,733	2,358,388
North Dakota.....	2,623,572	2,955,843	564,777	621,061
Montana.....	473,304	702,936	504,604	492,458
Wyoming.....	415,080	455,100	484,585	377,723
Colorado.....	2,564,331	3,106,134	1,760,723	1,765,436
New Mexico.....	42,572	65,430	148,106	132,916
Arizona.....	.....	.....	116,487	101,883
Utah.....	700,245	783,364	613,213	540,396
Nevada.....	211,110	182,115	405,395	364,302
Idaho.....	513,240	544,320	756,862	422,009
Washington.....	1,554,120	2,354,670	526,376	657,056
Oregon.....	1,271,596	2,389,600	1,164,098	1,067,942
California.....	1,939,710	2,256,765	2,335,845	2,716,099
Total crops.....	192,906,338	164,015,964	66,376,920	60,664,876
Total acres.....	2,557,729	2,534,577	42,780,827	42,426,770
Value.....	\$79,574,772	\$89,643,059	\$398,060,647	\$401,390,728
Yield per acre.....	75.2	64.7	1.55	1.43
Farm price.....	41.4	54.7	\$6 00	\$6 62

NOTE.—Comparisons of total production for a series of years will be found in other tabular exhibits elsewhere in this report.

PRICES OF MESS PORK, HAMS AND LARD.

Quotations for Mess Pork, per barrel, the best Sugar-cured Hams and for Winter Prime Steam Lard, per pound, at Cincinnati, on Tuesday of each week, during the provision trade year ending October 31:

DATES.	MESS PORK.		SUGAR-CURED HAMS.		PRIME STEAM LARD.	
	1897-98	1896-97	1897-98	1896-97	1897-98	1896-97
November 2.....	\$8 25	\$7 75	8.25@10.25	9.50@11.00	4.17½@ 4.20	4.05 @ 4.10
9.....	8 00	7 75	8.25@10.25	9.50@11.00	4.12½@ 4.15	4.10
16.....	7 75	7 50	8.25@10.25	9.50@11.00	4.15 @ 4.20	3.80 @ 3.90
23.....	7 75	7 50	8.25@10.00	9.50@11.00	4.15	3.75 @ 3.80
30.....	7 75	7 50	8.25@ 9.75	9.50@11.00	4.10 @ 4.12½	3.80
December 7.....	7 75	7 50	8.25@ 9.75	9.25@11.00	4.15 @ 4.17½	3.70
14.....	7 75	7 50	8.25@ 9.75	9.25@11.00	4.25	3.65 @ 3.70
21.....	8 50	7 50	8.00@ 9.75	9.25@11.00	4.40 @ 4.45	3.65
28.....	8 50	7 50	8.00@ 9.75	9.25@11.00	4.45 @ 4.50	3.60 @ 3.65
January 4.....	9 00	7 50	8.00@ 9.75	9.25@11.00	4.62½	3.65 @ 3.70
11.....	9 00	7 75	8.00@ 9.75	9.25@11.00	4.60	3.75
18.....	9 50	7 75	8.00@ 9.75	9.25@11.00	4.55	3.77½@ 3.80
25.....	9 75	7 75	8.00@ 9.75	9.25@11.00	4.75	3.75 @ 3.80
February 1.....	9 75	7 75	8.00@ 9.75	9.25@11.00	4.60 @ 4.65	3.65 @ 3.70
8.....	10 00	7 75	8.00@ 9.75	9.25@11.00	4.80	3.62½@ 3.65
15.....	10 50	8 00	8.00@ 9.75	9.25@11.00	4.95	3.65 @ 3.70
22.....	10 50	8 00	8.00@ 9.75	9.25@11.00	5.07½@ 5.15	3.75
March 1.....	10 50	8 50	7.50@ 9.50	9.25@11.00	5.00	3.85 @ 3.90
8.....	10 25	8 50	7.50@ 9.50	9.25@11.00	4.97½	3.95
15.....	10 00	8 75	7.50@ 9.50	9.25@11.00	4.90	4.10
22.....	10 00	8 75	7.50@ 9.50	9.25@11.25	4.95	4.05
29.....	9 50	8 50	7.50@ 9.50	9.25@11.25	4.80	4.10
April 5.....	9 75	8 75	7.50@ 9.50	9.25@11.25	5.15	3.95 @ 4.00
12.....	9 75	8 75	7.50@ 9.50	9.25@11.25	5.02½@ 5.05	4.05 @ 4.10
19.....	9 75	8 75	7.50@10.00	9.25@11.25	5.12½	4.05
26.....	11 25	8 75	7.50@10.00	9.25@11.25	5.50	4.00
May 3.....	11 25	8 75	7.50@10.00	9.25@11.25	5.70	3.85 @ 3.90
10.....	11 25	8 75	7.50@10.00	9.25@11.25	5.80	3.80
17.....	12 50	8 50	7.75@10.00	9.25@11.25	6.45 @ 6.50	3.62½
24.....	12 00	8 50	7.75@10.00	9.25@11.25	6.05	3.50 @ 3.55
31.....	12 00	8 25	7.75@10.00	9.25@11.25	6.02½	3.45
June 7.....	11 00	8 25	7.75@10.00	9.25@11.25	5.67½	3.37½@ 3.40
14.....	10 75	8 25	7.75@10.00	9.25@11.25	5.55 @ 5.60	3.52½
21.....	10 25	8 00	7.75@10.00	9.25@11.25	5.55	3.55
28.....	10 25	8 25	7.75@10.00	9.25@11.25	5.20 @ 5.25	3.95
July 5.....	10 00	8 25	7.75@10.00	9.25@11.25	5.00	3.87½
12.....	10 25	8 00	7.75@10.00	9.25@11.25	5.27½	3.70
19.....	10 00	8 25	7.75@10.00	9.00@11.00	5.25	4.00
26.....	10 00	8 25	7.75@10.00	9.00@11.00	5.20 @ 5.25	3.95 @ 4.00
August 2.....	9 75	8 50	7.75@10.00	9.00@11.00	5.10	4.05 @ 4.10
9.....	9 50	8 50	7.75@10.00	9.00@11.00	4.97½@ 5.00	4.25
16.....	9 50	8 50	8.00@10.00	9.00@11.00	5.05	4.32½
23.....	9 25	9 00	8.00@10.00	9.00@11.00	4.87½	4.45
30.....	9 25	9 25	8.00@10.00	9.00@11.00	5.02½	4.75
September 6.....	8 75	9 00	7.50@ 9.25	9.00@11.00	4.55 @ 4.65	4.30
13.....	8 75	9 25	7.50@ 9.25	9.00@11.00	4.75	4.70
20.....	8 75	9 00	7.50@ 9.25	9.00@11.00	4.60	4.50 @ 4.55
27.....	8 75	8 75	7.50@10.00	9.00@10.50	4.72½	4.37½
October 4.....	8 75	8 75	7.50@10.00	9.00@10.50	4.55	4.35
11.....	8 75	8 25	7.50@10.00	8.25@10.50	4.60 @ 4.62½	4.15 @ 4.17½
18.....	8 75	8 25	7.50@10.00	8.25@10.25	4.80	4.25
25.....	8 75	8 25	7.50@10.00	8.25@10.25	4.82½	4.15

PRICES OF DRY SALTED AND SMOKED MEATS.

Quotations for Dry Salted Meats and Bacon, per pound, at Cincinnati, on Tuesday of each week, during the provision trade year ending October 31:

DATES.	D. S. MEATS.				BACON.			
	Shoulders.		Short Rib Sides.		Shoulders.		Short Rib Sides.	
	1897-98	1896-97	1897-98	1896-97	1897-98	1896-97	1897-98	1896-97
November 2.	4.90@5.00	3.87½	4.90	4.00	5.40@5.50	4.00 @4.25	5.50	4.25
9.	4.90@5.00	3.87½	4.75	4.00	5.40@5.50	4.00 @4.25	5.25	4.25
16.	4.75	3.75	4.60	4.00	5.40@5.50	4.00 @4.25	5.25	4.25
23.	4.75	3.75	4.60	4.00	5.40@5.50	4.00 @4.25	5.25	4.25
30.	4.50	3.75	4.50	4.00	5.40@5.50	4.00 @4.25	5.25	4.25
December 7.	4.50	3.75	4.37½	4.00	5.40@5.50	4.25 @4.37½	5.00	4.25
14.	4.50	3.75	4.37½	4.00	5.40@5.50	4.25 @4.37½	5.00	4.25
21.	4.50	3.75	4.62½	4.00	5.40@5.50	4.25 @4.37½	5.00	4.25
28.	4.50	3.75	4.62½	4.00	5.40@5.50	4.25 @4.37½	5.00	4.25
January 4.	4.50	4.00	4.62½	4.00	5.40@5.50	4.00 @4.25	5.00	4.25 @4.37½
11.	4.50	4.00	4.62½	4.00	5.40@5.50	4.25	5.00	4.50 @4.62½
18.	4.50	4.00 @4.12½	4.62½	4.25 @4.37½	5.40@5.50	4.25	5.00	4.62½
25.	4.50	4.00 @4.12½	4.62½	4.25 @4.37½	5.40@5.50	4.25	5.12½	4.62½
February 1.	4.50	4.00 @4.12½	4.87½	4.25 @4.37½	5.40@5.50	4.25	5.37½	4.62½
8.	4.50	4.12½@4.25	5.00	4.25 @4.37½	5.25@5.50	4.50 @4.62½	5.37½	4.62½
15.	4.75	4.25	5.25	4.25	5.25	4.50 @4.62½	5.62½	4.50
22.	4.75	4.25	5.37½	4.25	5.25@5.50	4.50 @4.62½	5.75	4.50
March 1.	4.75	4.37½	5.25	4.37½	5.25@5.50	4.62½	5.75	4.62½
8.	4.75	4.37½	5.25	4.37½	5.25@5.50	4.62½	5.62½	4.75
15.	4.75	4.75	5.25	4.75	5.25@5.50	5.00	5.45	5.12½
22.	4.75	4.75	5.25	4.75	5.25@5.50	5.00 @5.25	5.45	5.12½@5.25
29.	4.75	4.75	5.25	4.75	5.25@5.50	5.00 @5.25	5.45	5.25
April 5.	4.75	4.75	5.25	4.75	5.25@5.50	5.00 @5.25	5.60	5.25
12.	4.75	4.62½	5.25	4.75	5.25@6.00	5.00 @5.25	5.60	5.25
19.	4.75	4.62½	5.25	4.75	5.25@6.00	5.00 @5.25	5.60	5.25
26.	5.00	4.62½	5.62½	4.75	5.25@6.00	5.00 @5.25	6.00	5.25
May 3.	5.00	4.62½	5.62½	4.75	5.25@6.00	5.00 @5.25	6.00	5.25
10.	5.00	4.62½	5.62½	4.75	5.25@6.00	5.00 @5.25	6.00	5.25
17.	5.25@5.37½	4.50	6.50	4.65	5.50@6.25	4.87½@5.12½	6.87½	5.12½
24.	5.25@5.37½	4.50	6.25	4.65	5.50@6.25	4.87½@5.12½	6.75	5.12½
31.	5.25@5.37½	4.50	6.25	4.60	5.50@6.25	4.87½@5.12½	6.75	5.10
June 7.	5.00	4.50	6.00	4.60	5.37½	4.87½@5.12½	6.37½	5.10
14.	4.50	4.50	5.62½	4.70	5.00	4.87½@5.12½	6.12½	5.10
21.	4.50	4.50	5.62½	4.65	5.00	4.87½@5.12½	6.12½	5.00
28.	4.50	4.50	5.62½	4.65	5.00	4.87½@5.12½	6.12½	5.12½
July 5.	4.50	4.50	5.50	4.65	5.00	4.87½@5.12½	6.00	5.12½
12.	4.50	4.50	5.62½	4.60	5.00	4.87½@5.12½	6.25	5.12½
19.	4.50	4.50	5.62½	4.65	5.00	4.87½@5.12½	6.25	5.12½
26.	4.50	4.50	5.62½	4.65	5.00	4.87½@5.12½	6.25	5.12½
August 2.	4.50	5.00	5.62½	4.80	5.00	5.50	6.25	5.25
9.	4.50	5.12½	5.62½	5.00	5.00	5.62½	6.25	5.50
16.	4.50	5.12½	5.62½	5.00	5.00	5.62½	6.25	5.50
23.	4.25	5.12½	5.87½	5.50	4.75	5.62½	6.00	5.87½@6.12½
30.	4.25	5.50	5.62½	5.75	4.75	6.00	6.25	6.25
September 6.	4.00	5.50	5.87½	6.00	4.50	6.00	6.00	6.50
13.	4.00	5.50	5.62½	6.12½	4.50	6.00	6.12½	6.62½
20.	4.00	5.50	5.87½	5.87½	4.50	6.00	6.12½	6.25
27.	4.00	5.25 @5.50	5.50@5.62½	5.37½	4.50	5.87½	6.12½	6.12½
October 4.	4.00	5.25 @5.50	5.50	5.37½	4.50	5.87½	6.12½	6.12½
11.	4.12½	5.00	5.50	4.90	4.50@4.62½	5.50	6.12½	5.75
18.	4.12½	5.00	5.50	5.00 @5.12½	4.50@4.62½	5.50	6.12½	5.75
25.	4.12½	4.90 @5.00	5.50	4.90 @5.00	4.62½	5.40 @5.50	6.12½	5.50

AVERAGE ANNUAL PRICES OF HOG PRODUCT.

Average annual prices of leading articles of Hog Product, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently :

YEARS.	MESS PORK.	D. S. MEATS.			BACON.				LARD.	
		Shoulders.	Short Rib Sides.	Short Clear Sides.	Shoulders.	Short Rib Sides.	Short Clear Sides.	Sugar Cured Hams.	Prime Steam Winter.	Kettle Winter.
1879-80.....	\$11 88	4.21	6.51	6.88	5.02	7.49	7.82	9.91	6.98	7.51
1880-81.....	15 93	5.46	8.08	8.38	6.24	8.90	9.28	10.85	9.86	10.49
1881-82.....	19 52	7.73	10.49	10.93	8.60	11.38	11.93	13.42	11.36	13.06
1882-83.....	18 92	7.51	10.10	10.54	8.53	11.23	11.78	13.61	10.85	11.60
1883-84.....	15 64	6.09	8.40	8.38	6.80	8.71	9.06	13.49	8.24	8.96
1884-85.....	12 74	4.76	6.65	6.96	5.39	7.38	7.80	10.70	6.87	7.54
1885-86.....	10 04	4.14	5.52	5.72	4.71	5.98	6.20	10.14	6.13	6.54
1886-87.....	13 74	5.60	7.17	7.41	6.39	7.85	8.10	11.48	6.56	7.25
1887-88.....	14 55	5.91	7.75	8.06	6.66	8.38	8.74	11.23	7.64	8.23
1888-89.....	13 13	5.83	6.82	7.06	6.65	7.47	7.85	11.56	7.41	8.03
1889-90.....	11 29	4.46	5.19	5.36	5.01	5.89	6.10	10.81	5.94	6.37
1890-91.....	10 72	4.76	5.72	5.91	5.80	6.31	6.54	10.18	6.11	6.55
1891-92.....	10 51	5.11	6.47	6.65	5.90	7.22	7.42	10.61	6.47	6.80
1892.....	11 68	5.83	6.92	7.33	6.55	7.63	8.03	11.04	7.21	7.55
1893.....	18 46	8.77	9.36	10.22	9.61	10.34	11.15	13.22	9.91	10.82
1894.....	12 98	6.08	6.79	7.06	6.65	7.48	7.88	10.60	7.25	7.92
1895.....	10 65	4.93	5.62	5.94	5.40	6.19	6.52	9.96	6.24	6.67
1896.....	8 04	4.09	4.19	4.42	4.53	4.61	4.84	10.29	4.29	4.74
1897.....	8 34	4.68	4.76	4.87	5.17	5.24	5.42	9.91	4.02	4.50
1898.....	9 73	4.50	5.37	5.55	4.93	5.97	6.06	8.73	5.06	5.51

Average annual prices for provision trade years ending October 31 :

YEARS.	MESS PORK.	D. S. MEATS.			BACON.				LARD.	
		Shoulders.	Short Rib Sides.	Short Clear Sides.	Shoulders.	Short Rib Sides.	Short Clear Sides.	Sugar Cured Hams.	Prime Steam Winter.	Kettle Winter.
1886-87.....	\$14 47	5.55	7.36	7.60	6.32	8.09	8.84	11.50	6.59	7.29
1887-88.....	14 60	6.28	7.84	8.16	6.98	8.46	8.87	11.37	8.15	8.74
1888-89.....	12 45	5.23	6.24	6.45	6.05	6.85	7.17	11.45	6.78	7.34
1889-90.....	11 21	4.60	5.23	5.40	5.19	5.96	6.16	10.67	5.96	6.37
1890-91.....	10 66	4.80	6.04	6.23	5.63	6.62	6.87	10.17	6.20	6.71
1891-92.....	10 64	5.31	6.52	6.72	6.10	7.31	7.55	10.66	6.64	6.83
1892-93.....	18 50	8.89	9.38	10.27	9.71	10.34	11.19	13.89	10.00	10.94
1893-94.....	13 29	6.22	7.03	7.33	6.86	7.71	8.18	10.73	7.51	8.21
1894-95.....	12 26	5.07	5.90	6.17	5.56	6.47	6.77	9.94	6.41	6.89
1895-96.....	8 20	4.22	4.28	4.52	4.68	4.79	5.00	9.73	4.47	4.98
1896-97.....	8 26	4.51	4.66	4.78	4.95	5.08	5.27	10.07	3.99	4.34
1897-98.....	9 63	4.63	5.30	5.40	5.30	5.79	5.96	8.81	4.84	5.38

Average prices of Live Hogs, at Cincinnati, for winter seasons :

1855-56.....\$4 84	1866-67.....\$6 02	1877-78.....\$4 20	1888-89.....\$5 15
1856-57.....4 99	1867-68.....6 60	1878-79.....2 84	1889-90.....3 75
1857-58.....4 13	1868-69.....8 41	1879-80.....4 36	1890-91.....3 65
1858-59.....5 27	1869-70.....9 46	1880-81.....4 61	1891-92.....3 90
1859-60.....4 97	1870-71.....5 50	1881-82.....6 24	1892-93.....6 60
1860-61.....4 77	1871-72.....4 36	1882-83.....6 44	1893-94.....5 35
1861-62.....2 63	1872-73.....3 92	1883-84.....5 24	1894-95.....4 35
1862-63.....3 56	1873-74.....4 58	1884-85.....4 44	1895-96.....3 80
1863-64.....5 60	1874-75.....6 99	1885-86.....3 81	1896-97.....3 35
1864-65.....11 70	1875-76.....7 27	1886-87.....4 28	1897-98.....3 60
1865-66.....9 57	1876-77.....5 90	1887-88.....5 18	1898-99.....3 55

ANNUAL RECEIPTS AND SHIPMENTS OF HOG PRODUCT.

Annual receipts of Hog Product, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently :

YEARS.	Pork, bbls.	†Bacon, lbs.	Hams, lbs.	D.S.Meats, in boxes, lbs.	*D.S.Meats, loose, lbs.	Lard, in bbls. or tcs. lbs.	Lard, in kegs, lbs.
1873-74.....	7,122	6,008,400	.....	634,500	28,999,404	17,420,800	85,815
1874-75.....	9,009	666,272	2,659,088	585,900	22,205,120	11,546,664	39,465
1875-76.....	6,068	1,128,066	4,774,505	414,970	19,341,658	13,935,251	16,470
1876-77.....	5,333	543,899	3,803,916	453,039	15,080,137	8,779,520	23,337
1877-78.....	3,179	701,411	4,939,365	595,270	13,436,334	9,371,686	33,660
1878-79.....	5,035	477,849	4,815,405	965,300	11,055,663	12,010,131	13,060
1879-80.....	3,105	1,142,555	5,989,534	2,399,360	15,753,318	7,741,727	13,678
1880-81.....	3,241	864,312	4,691,742	5,099,600	35,744,308	13,045,014	116,234
1881-82.....	3,034	1,201,546	4,525,791	1,906,250	42,106,174	6,755,006	38,727
1882-83.....	7,260	781,400	4,323,214	1,679,000	23,801,430	7,845,508	15,968
1883-84.....	3,846	950,017	5,534,619	2,780,500	40,827,342	7,187,949	29,295
1884-85.....	9,078	1,089,543	7,046,047	2,179,900	59,766,610	12,002,638	6,960
1885-86.....	13,406	712,814	8,987,034	3,730,110	82,137,199	13,824,712	7,595
1886-87.....	10,973	553,330	7,170,410	4,849,500	67,764,992	22,151,299	1,920
1887-88.....	6,999	784,950	6,438,392	5,139,850	52,132,914	15,050,905	360
1888-89.....	10,824	1,946,331	7,276,160	5,972,630	56,817,656	14,471,656	.....
1889-90.....	7,278	5,034,610	8,936,027	9,717,500	51,645,183	14,599,037	.....
1890-91.....	5,438	5,841,070	8,661,310	11,042,000	71,157,390	21,288,600	.....
1891-92.....	11,532	5,942,090	9,791,783	8,571,500	77,744,551	26,248,270	.....
1892.....	12,168	5,632,480	10,134,603	7,985,000	68,908,224	20,669,630	.....
1893.....	6,956	4,450,320	5,875,670	5,446,000	42,500,900	15,625,710	.....
1894.....	6,672	4,533,200	9,727,430	8,282,500	47,543,970	34,251,870	.....
1895.....	6,439	7,242,209	9,981,186	4,715,000	72,173,964	29,825,660	.....
1896.....	8,123	7,130,618	10,936,845	1,991,500	74,847,556	54,962,280	.....
1897.....	6,367	8,107,031	11,747,161	4,728,500	84,419,192	59,248,050	.....
1898.....	7,584	8,939,225	10,607,747	5,737,500	106,317,704	50,138,670	.....

* Including Green Meats.

† Including Hams prior to 1874-75.

Annual shipments of Hog Product, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently :

YEARS.	Pork, bbls.	Bacon, lbs.	Hams, lbs.	D.S.Meats, in boxes, lbs.	D.S.Meats, loose, lbs.	Lard, in bbls. or tcs. lbs.	Lard, in kegs, lbs.
1873-74.....	57,310	77,960,100	.....	9,222,000	36,553,997	42,898,880	1,752,210
1874-75.....	43,970	29,897,886	23,433,508	5,150,730	37,750,015	29,579,084	1,276,794
1875-76.....	53,518	26,509,395	23,487,125	9,162,971	32,637,549	34,565,110	592,090
1876-77.....	65,479	21,921,630	19,799,531	13,062,810	39,181,649	33,525,976	458,458
1877-78.....	73,384	21,813,868	22,839,734	16,026,500	32,638,175	44,967,709	256,725
1878-79.....	57,111	28,319,529	22,445,924	27,061,000	25,887,275	42,208,320	193,685
1879-80.....	38,428	21,443,410	20,344,412	19,388,835	29,185,313	26,420,256	143,554
1880-81.....	49,639	17,912,562	16,890,860	19,606,118	55,755,612	41,893,108	365,836
1881-82.....	17,503	20,822,492	13,697,246	8,751,840	48,904,210	24,206,955	603,482
1882-83.....	25,035	13,959,498	13,642,320	9,329,477	45,381,523	31,016,021	76,250
1883-84.....	19,495	16,781,225	13,730,304	6,153,760	52,007,307	25,019,197	71,652
1884-85.....	21,533	15,408,961	15,833,615	7,210,900	66,354,504	29,605,373	42,010
1885-86.....	19,813	17,804,775	16,719,140	7,027,115	95,275,105	34,280,705	10,330
1886-87.....	21,400	14,964,148	15,251,802	8,709,750	71,194,065	37,850,280	5,980
1887-88.....	10,157	12,751,470	12,285,099	6,728,250	57,032,097	27,328,732	5,400
1888-89.....	14,101	15,057,055	15,192,010	8,781,030	64,875,376	30,767,221	.....
1889-90.....	9,868	18,451,619	17,272,496	12,623,300	54,522,322	32,944,779	.....
1890-91.....	7,343	18,577,439	17,219,945	12,903,500	75,999,592	35,995,984	.....
1891-92.....	12,771	18,253,240	19,249,575	10,716,830	81,920,783	40,582,935	.....
1892.....	13,247	17,052,725	18,600,245	9,768,700	70,670,218	34,556,845	.....
1893.....	6,990	11,902,410	10,102,805	4,665,500	41,581,805	25,169,865	.....
1894.....	5,417	9,914,990	13,107,200	7,522,500	49,949,900	47,721,590	.....
1895.....	5,801	12,351,590	13,557,930	5,689,500	75,754,019	45,475,790	.....
1896.....	7,726	14,159,414	15,986,905	5,424,000	76,067,621	73,058,310	.....
1897.....	6,426	16,073,890	16,149,890	5,983,500	83,702,302	75,563,590	.....
1898.....	7,829	19,249,094	18,969,561	8,085,200	108,107,523	65,952,250	.....

MONTHLY MOVEMENT OF HOG PRODUCT.

Monthly receipts and shipments of Hog Product, at Cincinnati, for two years, ending December 31:

MONTHS.	RECEIPTS, 1898.					
	Bacon, lbs.	D. S. Meats, loose, lbs.	D. S. Meats, boxed, lbs.	Hams, lbs.	Lard, lbs.	Pork, bbls.
January.....	856,923	4,575,300	811,000	873,000	3,394,060	419
February.....	585,588	4,256,717	884,500	551,780	3,995,880	266
March.....	287,351	8,151,968	707,500	1,102,840	8,786,270	666
April.....	517,515	7,083,645	994,500	982,515	3,189,460	465
May.....	822,979	8,767,043	712,500	1,175,124	3,666,200	411
June.....	837,200	11,197,986	279,000	1,604,361	3,808,520	734
July.....	930,427	10,419,615	239,000	964,182	4,031,380	568
August.....	1,301,254	10,651,900	279,500	848,700	4,853,500	1,074
September.....	958,915	13,339,287	244,500	684,626	4,501,240	839
October.....	1,058,934	10,288,903	221,000	645,241	2,520,760	665
November.....	741,324	8,145,744	296,500	709,722	3,412,580	431
December.....	540,815	9,494,596	118,000	520,656	4,478,820	1,046

MONTHS.	SHIPMENTS, 1898.					
	Bacon, lbs.	D. S. Meats, loose, lbs.	D. S. Meats, boxed, lbs.	Hams, lbs.	Lard, lbs.	Pork, bbls.
January.....	1,334,720	5,863,849	891,000	2,000,210	5,303,950	441
February.....	1,468,600	4,563,390	612,000	1,396,110	4,875,660	380
March.....	1,172,740	7,999,523	1,349,000	1,651,687	9,836,460	580
April.....	2,164,510	6,986,406	671,500	1,609,340	4,700,880	482
May.....	1,907,193	8,549,620	1,156,000	1,710,290	5,002,900	175
June.....	1,481,014	10,596,580	452,700	2,325,330	4,289,810	917
July.....	1,921,404	10,472,600	418,000	1,553,245	5,366,010	563
August.....	2,295,110	9,002,834	405,500	1,317,230	5,804,220	1,033
September.....	1,745,550	3,451,208	294,500	1,168,029	5,147,240	810
October.....	1,549,461	10,169,793	404,000	1,019,925	3,922,320	662
November.....	1,357,557	9,451,672	537,000	1,284,355	5,255,360	542
December.....	1,020,285	10,001,089	895,000	1,933,770	6,447,440	1,254

MONTHS.	RECEIPTS, 1897.					
	Bacon, lbs.	D. S. Meats, loose, lbs.	D. S. Meats, boxed, lbs.	Hams, lbs.	Lard, lbs.	Pork, bbls.
January.....	576,244	3,663,524	194,000	1,009,288	7,178,540	522
February.....	546,649	4,547,600	64,500	767,530	2,971,260	596
March.....	535,695	6,044,348	143,500	1,003,890	7,118,780	243
April.....	461,200	4,565,730	253,500	501,090	3,275,300	256
May.....	597,902	6,833,700	159,000	907,956	4,699,620	891
June.....	532,480	8,111,289	232,500	1,242,105	6,805,960	313
July.....	898,714	9,570,240	305,000	1,273,002	2,726,400	302
August.....	1,273,988	8,983,659	559,000	1,346,657	5,606,260	1,582
September.....	745,354	7,228,925	665,000	1,061,290	3,198,930	404
October.....	750,926	8,618,965	306,000	491,290	5,392,400	388
November.....	695,049	9,278,232	877,500	858,961	5,762,160	469
December.....	432,830	6,975,590	969,000	1,284,102	4,512,440	451

MONTHS.	SHIPMENTS, 1897.					
	Bacon, lbs.	D. S. Meats, loose, lbs.	D. S. Meats, boxed, lbs.	Hams, lbs.	Lard, lbs.	Pork, bbls.
January.....	994,250	4,034,545	524,000	1,585,240	8,829,860	612
February.....	1,059,420	4,541,349	254,500	811,260	4,203,460	579
March.....	1,537,625	6,183,800	488,000	1,178,610	8,649,020	261
April.....	1,111,730	4,383,000	354,000	862,150	4,171,240	273
May.....	1,585,705	6,555,870	548,000	1,112,090	5,513,620	970
June.....	1,394,160	8,119,878	512,500	1,707,770	8,776,060	291
July.....	1,489,573	9,518,995	285,500	1,461,920	3,732,300	337
August.....	2,171,765	8,328,906	390,000	1,516,160	6,763,480	1,387
September.....	1,382,494	6,833,360	386,500	1,497,590	3,967,600	468
October.....	1,107,648	8,309,900	188,000	847,640	6,643,290	328
November.....	1,080,700	9,472,939	524,500	1,365,490	7,308,910	418
December.....	1,158,780	7,418,760	1,528,000	2,200,960	7,004,560	512

MONTHLY MOVEMENT OF HOGS AND HOG PRODUCT.

Monthly receipts and shipments of Hogs and Hog Product, at Cincinnati, for the provision trade year ending October 31, 1898:

MONTHS.	RECEIPTS, 1897-98.				SHIPMENTS, 1897-98.			
	Hogs, head.	Pork, bbls.	Lard, lbs.	Meats, lbs.	Hogs, head.	Pork, bbls.	Lard, lbs.	Meats, lbs.
November.....	113,409	469	5,762,160	11,709,742	42,061	418	7,306,910	12,443,629
December.....	131,186	451	4,512,440	8,661,522	43,672	512	7,004,560	12,307,500
January.....	118,712	419	3,394,060	6,616,223	47,851	441	5,303,950	10,099,779
February.....	88,900	266	3,995,880	6,228,585	39,397	380	4,875,660	8,040,100
March.....	78,297	666	8,786,270	10,249,659	27,006	580	9,836,460	12,172,950
April.....	92,718	466	3,189,460	8,878,175	38,154	482	4,700,880	11,431,796
May.....	97,873	411	3,666,200	11,477,646	32,746	175	5,002,900	13,322,112
June.....	76,602	734	8,308,520	13,918,647	25,372	917	4,289,810	14,855,674
July.....	64,883	568	4,031,380	12,553,224	24,782	553	5,366,010	14,365,249
August.....	58,820	1,074	4,853,500	12,076,394	16,854	1,033	5,804,220	13,020,674
September.....	65,585	839	4,501,240	15,227,328	24,821	810	5,147,240	6,490,287
October.....	90,337	665	2,520,760	12,209,078	36,924	662	3,922,320	13,143,179

Monthly receipts and shipments of Hogs and Hog Product, at Cincinnati, for the provision trade year ending October 31, 1897:

MONTHS.	RECEIPTS, 1896-97.				SHIPMENTS, 1896-97.			
	Hogs, head.	Pork, bbls.	Lard, lbs.	Meats, lbs.	Hogs, head.	Pork, bbls.	Lard, lbs.	Meats, lbs.
November.....	106,281	398	4,098,660	8,445,256	46,134	451	5,732,480	9,870,706
December.....	131,153	634	2,826,800	5,360,310	60,773	308	4,710,600	8,491,546
January.....	103,517	522	7,178,540	5,443,056	45,310	612	8,829,860	7,138,035
February.....	74,039	596	2,971,260	5,926,279	27,225	579	4,203,460	6,666,529
March.....	95,392	243	7,118,780	7,787,433	34,456	251	8,649,020	9,388,035
April.....	86,220	256	3,275,300	5,781,520	39,595	273	4,171,240	6,710,880
May.....	83,432	891	4,699,620	8,498,558	32,227	970	5,513,620	9,801,665
June.....	87,711	313	6,805,960	10,118,374	30,080	291	8,776,060	11,734,308
July.....	56,319	302	2,726,400	12,046,956	21,275	337	3,732,300	12,755,988
August.....	52,112	1,532	5,606,260	12,162,704	16,740	1,387	6,763,480	13,406,331
September.....	58,515	404	3,198,930	9,698,569	22,892	468	3,967,600	10,099,944
October.....	78,282	388	5,392,400	10,167,171	37,510	328	6,643,280	10,453,188

LIST OF CINCINNATI PACKERS.

The following is a list of Slaughterers and Curers of Hog Product, at Cincinnati, in the year 1898:

Cincinnati Abattoir Co.	Joseph Knauber Sons.	Ruttie-Schlickman Packing Co.
Charles J. Brenner's Sons.	Maescher & Co.	(Covington, Ky.)
Charles Davis & Co.	H. H. Meyer Packing Co.	A. Sander Packing Co.
John Hoffmann.	Thomas Morrison & Co.	J. & F. Schroth Packing Co.
John Hoffmann's Sons.	J. Rawson & Son.	Jacob Vogel & Son.
Joseph L. Jacob & Co.	John H. Remmers & Co.	Geo. Zehler Provision Co.
	John C. Roth Packing Co.	

ANNUAL MOVEMENT OF HOGS AND HOG PRODUCT.

Annual receipts and shipments of Hogs and Hog Product, at Cincinnati, for years indicated, ending October 31:

YEARS.	RECEIPTS.				SHIPMENTS.			
	Hogs, head.	Pork, bbls.	Lard, lbs.	Meats, lbs.	Hogs, head.	Pork, bbls.	Lard, lbs.	Meats, lbs.
1876-77.....	950,091	4,066	8,649,842	20,275,625	247,005	59,373	33,907,783	90,707,938
1877-78.....	1,069,146	3,189	9,435,791	18,617,937	231,929	67,611	43,658,859	93,447,945
1878-79.....	1,069,710	5,327	12,022,574	18,706,246	213,058	60,307	42,075,935	102,751,489
1879-80.....	963,959	2,547	8,302,052	28,088,216	249,527	44,544	30,452,460	89,810,886
1880-81.....	1,053,216	3,599	13,003,365	50,489,141	304,170	37,300	37,702,839	110,643,940
1881-82.....	649,786	6,268	7,332,841	46,009,486	135,877	19,926	25,371,520	87,759,290
1882-83.....	886,514	4,422	7,000,509	31,094,935	289,670	23,133	31,113,638	83,438,141
1883-84.....	877,715	4,258	8,320,167	54,609,763	304,670	19,450	25,428,589	92,803,745
1884-85.....	830,957	9,797	12,590,207	73,647,170	251,482	24,472	30,921,503	116,118,041
1885-86.....	774,678	14,781	13,953,287	95,610,802	218,960	22,060	33,419,765	130,408,414
1886-87.....	858,088	9,090	21,715,424	79,707,608	293,574	16,562	37,538,453	108,211,410
1887-88.....	774,461	7,042	14,635,671	59,196,661	255,283	11,059	26,085,428	86,788,182
1888-89.....	938,588	10,626	15,399,305	77,290,021	375,248	13,771	33,306,542	109,804,177
1889-90.....	1,091,490	7,479	14,093,127	78,307,395	504,527	9,015	32,237,279	103,188,699
1890-91.....	926,754	5,201	23,121,530	103,197,877	365,619	7,151	36,592,454	131,996,019
1891-92.....	1,162,497	11,793	24,179,890	94,985,737	567,346	12,830	38,976,665	122,062,341
1892-93.....	1,029,342	6,744	15,217,630	59,195,720	688,017	7,134	25,274,505	71,606,410
1893-94.....	1,065,064	7,100	29,816,490	66,170,050	568,795	5,656	42,422,020	74,894,030
1894-95.....	1,126,383	5,924	33,262,620	92,096,397	530,100	5,651	47,817,110	104,658,425
1895-96.....	1,460,380	8,565	51,883,560	94,590,638	826,226	7,741	69,492,320	111,176,702
1896-97.....	1,653,256	6,479	55,898,910	101,936,186	1,056,500	6,899	72,560,310	116,517,655
1897-98.....	1,467,854	7,027	62,521,870	129,806,128	785,172	6,968	68,662,920	141,692,829

NOTE.—The Hog movement includes through shipments, 169,061 in 1893-94, 197,875 in 1894-95, 304,603 in 1895-96, 642,283 in 1896-97, 390,532 in 1897-98.

DAILY RECEIPTS AND SHIPMENTS OF HOGS.

Daily receipts and shipments of Hogs, November 1, 1897, to March 1, 1898:

DATES.	Receipts.	Shipm'ts.	DATES.	Receipts.	Shipm'ts.	DATES.	Receipts.	Shipm'ts.
November 1....	3,297	946	December 10....	4,507	2,217	January 20....	2,726	2,548
2....	.....	.....	11....	2,963	2,160	21....	2,947	1,180
3....	4,456	1,764	12-13....	4,826	1,569	22....	1,251	706
4....	2,512	615	14....	4,225	2,414	23-24....	5,529	842
5....	3,404	962	15....	4,239	972	25....	3,291	2,306
6....	2,334	1,564	16....	3,779	1,058	26....	5,266	1,753
7-8....	6,196	1,654	17....	4,370	658	27....	3,894	1,426
9....	3,607	2,768	18....	3,982	1,413	28....	4,155	2,343
10....	6,283	1,485	19-20....	4,930	640	29....	2,840	2,032
11....	5,630	2,537	21....	6,396	1,115	30-31....	5,720	1,130
12....	5,354	2,030	22....	8,105	1,456	February 1....	3,852	2,656
13....	3,562	2,068	23....	6,566	2,901	2....	4,583	1,397
14-15....	6,865	1,328	24....	5,494	2,604	3....	3,362	2,789
16....	3,904	2,501	25-26-27....	3,684	3,473	4....	4,454	1,941
17....	6,175	1,233	28....	2,323	1,941	5....	1,907	2,017
18....	3,672	1,343	29....	4,330	1,420	6-7....	3,987	967
19....	4,044	2,265	30....	3,629	1,328	8....	3,278	2,176
20....	2,711	1,818	31....	3,849	796	9....	4,115	1,398
21-22....	4,531	614	Janu'y 1-2-3....	7,099	1,241	10....	4,046	1,688
23....	4,146	1,811	4....	7,029	3,216	11....	3,817	1,647
24....	6,762	1,784	5....	6,784	2,451	12....	1,796	1,325
25-26....	8,669	2,690	6....	6,102	2,431	13-14....	5,510	944
27....	3,356	2,890	7....	4,613	2,011	15....	3,253	1,864
28-29....	6,101	1,305	8....	2,374	1,749	16....	5,007	1,473
30....	5,833	2,136	9-10....	7,873	996	17....	3,011	2,531
December 1....	8,884	1,756	11....	5,489	2,844	18....	8,031	1,403
2....	6,421	1,313	12....	5,636	1,377	19....	3,234	1,546
3....	6,280	1,832	13....	5,749	2,113	20-21....	4,888	1,489
4....	4,214	2,931	14....	3,850	1,636	22-23....	6,792	2,383
5-6....	5,829	2,226	15....	3,196	3,062	24....	4,651	1,287
7....	3,376	1,573	16-17....	5,289	1,916	25....	3,062	2,060
8....	7,803	603	18....	4,899	2,292	26....	1,457	1,676
9....	6,178	1,283	19....	5,111	2,258	27-28....	5,817	740

PRICES OF HOGS.

Quotations for fair to good Packing Hogs, per 100 pounds, alive, on each day in the winter months, and on each Tuesday during the remainder of the year, at Cincinnati, for twelve months ending October 31, 1898, with comparisons:

DATES.	1897-98	1896-97	DATES.	1897-98	1896-97	DATES.	1897-98	1896-97
Novemb'r 1..	\$3 45@3 60		Dece'ber 23..	\$3 30@3 37	\$3 20@3 25	Febr'y 13..		\$3 45@3 55
2..		\$3 40@3 45	24..	\$3 25@3 35	\$3 30@3 35	14..	\$3 95@4 05	
3..	\$3 50@3 70		25..			15..	4 00@4 10	\$3 50@3 55
4..	\$3 50@3 70	\$3 40@3 45	26..			16..	4 00@4 10	\$3 50@3 55
5..	\$3 50@3 70	\$3 35@3 45	27..	\$3 35@3 42		17..	\$3 95@4 05	\$3 40@3 45
6..	\$3 50@3 67	\$3 35@3 45	28..	\$3 40@3 50	\$3 35@3 40	18..	4 00@4 10	\$3 45@3 50
7..		\$3 40@3 50	29..	\$3 40@3 50	\$3 25@3 30	19..	4 00@4 10	\$3 50@3 55
8..	\$3 50@3 67		30..	\$3 40@3 50	\$3 25@3 30	20..		\$3 55@3 60
9..	\$3 50@3 65	\$3 50@3 55	31..	\$3 45@3 55	\$3 30@3 35	21..	4 05@4 20	
10..	\$3 45@3 60	\$3 45@3 55	January 1..		\$3 25@3 35	22..		
11..	\$3 45@3 60	\$3 30@3 40	2..			23..	\$3 95@4 05	\$3 55@3 60
12..	\$3 50@3 60	\$3 25@3 30	3..	\$3 55@3 62		24..	\$3 95@4 05	\$3 60@3 65
13..	\$3 45@3 55	\$3 25@3 35	4..	\$3 50@3 60	\$3 35@3 40	25..	\$3 95@4 05	\$3 65@3 70
14..		\$3 30@3 35	5..	\$3 40@3 50	\$3 40@3 50	26..	\$3 95@4 05	\$3 65@3 75
15..	\$3 35@3 45		6..	\$3 45@3 55	\$3 40@3 45	27..		\$3 65@3 75
16..	\$3 35@3 45	\$3 20@3 25	7..	\$3 45@3 55	\$3 30@3 40	28..	\$3 95@4 05	
17..	\$3 35@3 45	\$3 10@3 20	8..	\$3 50@3 60	\$3 25@3 35	March 1..	\$3 90@4 00	\$3 60@3 70
18..	\$3 35@3 45	\$3 05@3 15	9..		\$3 25@3 35	2..	\$3 90@4 00	\$3 70@3 80
19..	\$3 40@3 50	\$3 10@3 20	10..	\$3 50@3 60		3..	\$3 75@3 85	\$3 90@4 00
20..	\$3 35@3 45	\$3 20@3 25	11..	\$3 50@3 60	\$3 20@3 30	4..	\$3 85@3 95	4 05@4 10
21..		\$3 20@3 25	12..	\$3 50@3 60	\$3 20@3 30	5..	\$3 80@3 90	\$3 90@4 00
22..	\$3 40@3 50		13..	\$3 55@3 65	\$3 20@3 30	6..	\$3 85@3 95	\$3 95@4 05
23..	\$3 35@3 45	\$3 30@3 40	14..	\$3 55@3 65	\$3 25@3 35	7..	\$3 70@3 80	4 00@4 10
24..	\$3 35@3 45	\$3 30@3 35	15..	\$3 50@3 60	\$3 35@3 40	8..	\$3 65@3 75	\$3 95@4 05
25..		\$3 20@3 25	16..		\$3 35@3 40	9..	\$3 90@4 00	\$3 90@4 00
26..	\$3 35@3 45		17..	\$3 50@3 60		10..	\$3 90@4 00	\$3 90@3 95
27..	\$3 35@3 45	\$3 25@3 35	18..	\$3 50@3 60	\$3 35@3 45	11..	4 00@4 10	\$3 75@3 80
28..		\$3 30@3 40	19..	\$3 55@3 65	\$3 35@3 45	12..	4 35@4 45	\$3 60@3 65
29..	\$3 40@3 50		20..	\$3 55@3 65	\$3 40@3 45	13..	4 00@4 15	\$3 65@3 70
30..	\$3 40@3 50	\$3 40@3 50	21..	\$3 60@3 70	\$3 45@3 55	14..	4 00@4 20	\$3 55@3 60
December 1..	\$3 30@3 40	\$3 25@3 35	22..	\$3 75@3 85	\$3 40@3 50	15..	\$3 95@4 05	\$3 60@3 65
2..	\$3 30@3 42	\$3 15@3 25	23..		\$3 40@3 50	16..	\$3 75@3 85	\$3 65@3 70
3..	\$3 25@3 35	\$3 20@3 30	24..	\$3 75@3 85		17..	\$3 75@3 85	\$3 30@3 35
4..	\$3 25@3 35	\$3 20@3 30	25..	\$3 75@3 85	\$3 45@3 55	18..	\$3 85@3 90	\$3 50@3 55
5..	\$3 35@3 42	\$3 15@3 20	26..	\$3 80@3 90	\$3 45@3 55	19..	\$3 70@3 85	\$3 45@3 50
6..	\$3 35@3 42	\$3 10@3 15	27..	\$3 80@3 90	\$3 50@3 55	20..	\$3 70@3 85	\$3 40@3 45
7..	\$3 32@3 40	\$3 00@3 10	28..	\$3 75@3 85	\$3 45@3 52	21..	\$3 90@4 00	\$3 65@3 70
8..	\$3 25@3 42	\$3 20@3 30	29..	\$3 70@3 80	\$3 45@3 50	22..	\$3 90@4 00	\$3 65@3 70
9..	\$3 20@3 25	\$3 20@3 30	30..		\$3 45@3 55	23..	\$3 90@3 95	\$3 85@4 00
10..	\$3 15@3 22	\$3 30@3 40	31..	\$3 70@3 80		24..	\$3 90@4 00	\$3 90@4 05
11..	\$3 15@3 22	\$3 25@3 30	February 1..	\$3 70@3 80	\$3 45@3 55	1..	\$3 85@3 95	4 05@4 15
12..		\$3 20@3 25	2..	\$3 65@3 75	\$3 45@3 55	2..	\$3 85@3 95	4 15@4 25
13..	\$3 27@3 32		3..	\$3 75@3 85	\$3 35@3 45	3..	\$3 90@4 00	4 30@4 40
14..	\$3 30@3 35	\$3 25@3 30	4..	\$3 80@3 90	\$3 40@3 45	4..	\$3 85@3 95	4 25@4 30
15..	\$3 35@3 40	\$3 20@3 25	5..	\$3 85@3 95	\$3 40@3 45	5..	\$3 85@3 95	4 15@4 25
16..	\$3 40@3 45	\$3 20@3 25	6..		\$3 40@3 45	6..	\$3 90@4 00	4 35@4 45
17..	\$3 40@3 45	\$3 25@3 30	7..	\$3 90@4 00		7..	\$3 80@3 90	4 20@4 25
18..	\$3 40@3 50	\$3 15@3 25	8..	\$3 90@4 00	\$3 45@3 50	8..	\$3 80@3 85	4 10@4 20
19..		\$3 20@3 25	9..	\$3 85@3 95	\$3 50@3 55	9..	\$3 55@3 65	\$3 85@4 00
20..	\$3 45@3 50		10..	\$3 85@3 95	\$3 50@3 55	10..	\$3 55@3 65	\$3 85@4 00
21..	\$3 40@3 50	\$3 15@3 20	11..	\$3 85@3 95	\$3 40@3 50	11..	\$3 50@3 60	\$3 35@3 45
22..	\$3 35@3 45	\$3 20@3 25	12..	\$3 85@3 95	\$3 40@3 45	12..		

Average monthly prices of fair to good Packing Hogs, at Cincinnati, during winter seasons, in years indicated:

MONTHS.	1897-98	1896-97	1895-96	1894-95	1893-94	1892-93	1891-92	1890-91	1889-90	1888-89	1887-88	1886-87
November	\$3 50	\$3 30	\$3 55	\$4 45	\$5 55	\$5 50	\$3 75	\$3 67	\$3 76	\$5 30	\$4 78	\$3 98
December	\$3 35	\$3 25	\$3 45	\$4 35	\$5 20	\$6 80	\$3 70	\$3 44	\$3 67	\$5 13	\$5 39	\$4 21
January	\$3 65	\$3 40	\$3 95	\$4 25	\$5 30	\$7 45	\$4 20	\$3 62	\$3 75	\$5 01	\$5 45	\$4 64
February	\$3 95	\$3 50	\$4 45	\$4 20	\$5 20	\$8 00	\$4 65	\$3 69	\$3 97	\$4 66	\$5 43	\$5 23
Average	\$3 60	\$3 35	\$3 85	\$4 20	\$5 30	\$6 80	\$4 05	\$3 60	\$3 76	\$5 02	\$5 26	\$4 51

MOVEMENT OF LIVE STOCK.

Monthly and yearly receipts and shipments of Hogs, Cattle and Sheep, and average live weight, at the Cincinnati Union Stock Yards:

MONTHS.	HOGS.				CATTLE.				SHEEP.			
	Receipts.		Shipments.		Receipts.		Shipments.		Receipts.		Shipments.	
	1896	1897	1896	1897	1896	1897	1896	1897	1896	1897	1896	1897
January.....	99,205	92,355	48,622	45,207	12,631	12,208	2,215	2,298	8,385	11,637	2,583	4,913
February.....	73,848	66,156	39,368	27,222	11,564	10,520	1,457	1,418	5,687	6,633	1,414	2,325
March.....	63,667	79,527	27,528	34,454	11,069	12,674	1,241	1,403	4,002	5,806	878	436
April.....	74,557	78,859	34,194	40,923	11,528	11,196	1,659	1,381	5,568	7,581	791	1,554
May.....	78,881	72,620	33,240	32,759	13,679	13,927	2,021	1,585	14,898	17,671	6,766	8,313
June.....	63,851	71,388	25,372	29,639	13,228	12,882	2,289	2,618	105,064	79,412	90,996	61,085
July.....	55,370	48,400	25,107	21,799	11,904	12,374	2,156	2,228	107,738	118,803	98,175	108,372
August.....	50,271	45,299	16,989	16,735	16,654	17,149	3,248	4,296	74,148	91,132	62,474	76,900
September.....	53,386	52,399	24,878	23,652	16,822	23,133	5,271	7,817	27,791	41,614	17,652	29,518
October.....	73,741	72,817	37,024	37,406	18,007	19,668	4,707	7,551	16,654	21,994	8,356	12,624
November.....	99,232	96,385	39,631	43,240	15,444	19,863	4,250	7,476	11,949	17,767	5,131	12,075
December.....	102,515	106,777	36,232	43,665	11,276	13,325	3,154	8,568	7,788	10,808	4,857	6,267
Totals.....	887,524	881,392	387,235	396,708	163,806	168,806	33,618	43,614	389,647	430,858	300,072	324,784

YEARS.	HOGS.			CATTLE.			SHEEP.		
	Receipts.	Shipm'ts.	Weight.	Receipts.	Shipm'ts.	Weight.	Receipts.	Shipm'ts.	Weight.
1881-82.....	623,546	155,417	240.47	173,404	61,762	898.05	579,428	484,448	79.35
1882-83.....	644,194	187,140	247.18	154,956	55,960	969.19	581,074	424,476	78.88
1883-84.....	693,056	252,450	228.10	156,197	49,278	984.68	485,338	361,127	80.50
1884-85.....	695,794	224,220	237.14	143,906	39,550	987.33	448,929	332,238	78.59
1885-86.....	681,695	182,065	239.17	161,479	50,755	980.04	469,629	348,891	78.18
1886-87.....	666,444	224,901	229.14	152,607	35,716	1,000.56	409,972	298,401	76.07
1887-88.....	655,508	224,621	217.87	157,045	37,328	988.09	340,438	238,891	77.22
1888-89.....	678,188	256,061	238.71	151,522	32,232	989.94	384,194	237,314	77.23
1889-90.....	727,017	306,487	212.71	165,256	45,696	998.31	305,642	218,233	75.44
1890-91.....	724,281	285,337	201.37	173,981	56,357	949.76	322,009	212,068	75.29
1891-92.....	685,591	260,843	197.22	175,861	51,676	941.67	311,973	184,531	73.13
1892.....	871,774	422,037	185.91	214,305	75,313	948.01	667,155	479,565	76.49
1893.....	712,816	363,299	189.67	191,620	58,769	926.81	584,822	459,768	76.58
1894.....	723,849	301,203	198.51	154,456	47,340	988.93	621,457	468,953	79.87
1895.....	820,687	335,909	203.33	179,684	44,478	920.75	597,507	410,616	77.33
1896.....	877,176	391,377	191.56	172,310	38,878	920.15	481,254	382,718	80.84
1897.....	881,392	336,703	188.43	178,919	43,614	860.11	430,858	324,784	79.04
1898.....	887,524	387,235	185.24	163,806	33,618	868.39	389,647	300,072	81.70

Average weight of Hogs, Cattle and Sheep, weighed at the Union Stock Yards:

MONTHS.	HOGS.		CATTLE.		SHEEP.	
	1896	1897	1896	1897	1896	1897
January.....	192.05	189.12	872.62	903.19	90.97	87.81
February.....	170.87	176.34	890.08	918.83	90.08	86.78
March.....	171.93	163.30	910.11	921.20	86.51	79.75
April.....	170.22	161.57	911.57	926.88	77.73	76.81
May.....	169.36	170.92	895.81	888.27	72.84	74.03
June.....	181.75	189.88	869.84	859.87	74.05	74.86
July.....	191.59	194.13	845.21	847.53	74.19	75.21
August.....	200.96	188.94	832.03	802.68	75.29	78.67
September.....	200.82	184.21	824.23	805.26	79.35	83.72
October.....	192.46	182.58	846.53	843.90	81.58	87.45
November.....	203.68	193.03	865.23	838.15	85.78	92.68
December.....	206.93	200.77	857.36	870.74	92.17	90.49
Average for year.....	185.24	183.43	868.39	860.11	81.70	79.04

CATTLE AND SHEEP IN THE UNITED STATES.

Department of Agriculture estimates of number of Cattle and Sheep in the United States, on January 1:

STATES AND TERRITORIES.	MILCH COWS.		OTHER CATTLE.		TOTAL CATTLE.		SHEEP.	
	1899	1898	1899	1898	1899	1898	1899	1898
Maine.....	197,878	195,919	109,440	107,294	307,318	303,213	246,628	232,668
New Hampshire.....	186,825	182,840	79,880	76,327	266,705	259,167	78,289	76,754
Vermont.....	271,602	266,276	133,783	135,139	405,390	401,415	165,940	161,107
Massachusetts.....	179,791	174,554	74,875	74,134	254,666	248,688	40,437	41,262
Rhode Island.....	25,511	25,258	10,356	10,676	35,867	35,934	10,715	10,769
Connecticut.....	143,098	138,930	66,588	65,282	209,686	204,212	31,745	30,820
New York.....	1,458,251	1,402,164	561,077	544,735	2,019,328	1,946,899	841,355	825,446
New Jersey.....	214,674	208,421	41,558	42,406	256,232	250,827	72,299	41,067
Pennsylvania.....	924,260	928,905	528,942	530,981	1,453,202	1,479,880	790,604	782,776
Delaware.....	35,376	35,554	22,995	23,953	58,371	59,507	12,981	12,852
Maryland.....	155,022	151,982	105,900	109,175	260,922	261,157	136,135	132,170
Virginia.....	244,937	252,512	338,542	356,360	583,479	608,872	369,527	380,956
North Carolina.....	248,268	258,607	295,530	321,228	543,798	579,835	261,400	290,445
South Carolina.....	126,762	130,682	141,509	152,160	268,271	282,842	66,540	70,787
Georgia.....	297,324	308,392	325,018	503,593	720,342	806,985	327,534	341,233
Florida.....	114,251	117,785	335,774	350,295	464,025	468,080	83,598	89,890
Alabama.....	254,727	296,194	336,479	442,736	591,206	738,930	193,083	219,356
Mississippi.....	256,951	267,657	304,118	370,876	561,069	638,533	239,720	266,356
Louisiana.....	125,747	138,194	182,690	220,108	308,437	358,292	119,163	126,769
Texas.....	700,802	722,476	4,588,897	4,823,295	5,234,699	5,545,771	2,543,917	2,649,914
Arkansas.....	196,808	223,645	250,528	305,522	447,336	529,167	119,733	136,060
Tennessee.....	254,673	279,863	322,293	379,168	467,355	659,031	286,063	328,808
West Virginia.....	163,896	167,240	245,460	253,604	407,355	420,844	440,014	448,994
Kentucky.....	248,208	264,051	341,181	392,162	589,389	655,213	597,643	649,612
Ohio.....	786,735	729,441	6,643,335	6,061,127	1,373,168	1,335,568	2,730,471	2,416,346
Michigan.....	459,107	454,561	341,535	348,505	800,642	803,066	1,396,053	1,355,391
Indiana.....	611,975	605,916	641,913	675,698	1,253,882	1,281,614	674,532	667,853
Illinois.....	1,001,212	1,003,218	1,265,036	1,304,192	2,267,278	2,307,410	613,191	601,168
Wisconsin.....	895,822	814,384	589,315	607,541	1,485,137	1,421,925	722,967	715,809
Minnesota.....	646,673	633,993	570,165	593,922	1,216,838	1,227,915	410,998	406,929
Iowa.....	1,250,775	1,214,345	2,163,584	2,207,732	3,414,339	3,422,084	613,343	573,218
Missouri.....	673,195	666,530	1,460,647	1,537,523	2,133,842	2,204,053	616,102	655,428
Kansas.....	690,457	654,286	2,076,489	2,035,774	2,756,946	2,690,060	321,192	226,659
Nebraska.....	628,750	571,591	1,395,829	1,213,704	2,024,579	1,785,355	292,779	266,163
Dakotas.....	543,394	509,298	702,002	677,361	1,245,396	1,186,659	723,418	702,377
Montana.....	43,994	42,713	952,598	1,082,498	996,592	1,125,211	3,377,547	3,247,641
Wyoming.....	18,140	17,960	694,973	688,092	713,113	706,052	2,328,025	2,190,021
Colorado.....	91,666	85,689	973,259	935,826	1,064,925	1,021,495	1,655,551	1,624,265
New Mexico.....	19,317	19,126	701,967	731,216	721,284	759,342	3,128,692	2,844,265
Arizona.....	18,404	18,222	381,812	509,082	400,216	527,304	1,014,287	845,239
Utah.....	57,767	55,564	304,116	322,464	360,903	378,028	2,116,949	1,978,457
Nevada.....	18,069	18,105	224,317	241,201	242,386	259,306	576,994	549,518
Idaho.....	31,500	29,167	384,056	349,142	415,556	378,309	2,311,880	1,651,343
Washington.....	115,485	120,297	265,376	294,862	380,861	415,159	759,824	744,925
Oregon.....	116,581	115,427	573,646	667,030	690,227	782,457	2,575,460	2,682,779
California.....	318,425	342,392	664,704	810,615	983,129	1,133,007	2,175,545	2,589,935
Oklahoma.....	37,014	35,590	257,505	212,814	294,519	248,404	22,982	25,536
Total.....	15,990,115	15,840,886	27,994,225	29,264,197	43,984,340	45,105,083	39,114,453	37,656,960

PRICES OF CATTLE AND SHEEP BY GRADES.

Prices by grades of Cattle and Sheep, at Cincinnati, at the close of December:

GRADES.	1898	1897	1896	1895	1894	1893
CATTLE.						
Good to choice shipping, per cental gross	\$4 35@4 85	\$4 00@4 65	\$3 75@4 40	\$3 65@4 25	\$4 00@4 65	\$3 75@4 50
Fair to good, " "	4 15@4 65	3 90@4 50	3 90@4 25	4 00@4 25	4 10@4 50	4 00@4 40
Medium, " "	3 40@4 10	3 15@3 85	3 25@3 85	3 40@3 90	3 15@4 00	3 25@3 90
Common, " "	2 50@3 25	2 25@3 00	2 25@3 00	2 50@3 25	2 00@3 00	2 00@3 00
SHEEP.						
Extra, per cental gross.....	3 85@4 00	4 40@4 65	3 60@3 75	3 25@3 75	3 25@4 00	3 50
Good to choice, " "	3 25@3 75	4 00@4 35	3 00@3 50	2 25@3 00	2 25@3 00	2 75@3 25
Common to fair, " "	2 25@3 00	2 75@3 85	2 25@2 75	1 25@2 00	1 25@2 00	1 50@2 50

MOVEMENT OF LIVE STOCK.

Total yearly movement of Hogs, Cattle and Sheep, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently :

YEARS.	HOGS.		CATTLE.		SHEEP.	
	Received.	Shipped.	Received.	Shipped.	Received.	Shipped.
1871-72.....	1,015,885	159,390	169,855	76,866	187,522	68,541
1872-73.....	1,119,482	265,385	149,629	53,385	131,633	62,755
1873-74.....	1,121,707	290,094	199,426	79,551	240,161	101,975
1874-75.....	920,889	149,264	227,450	103,438	273,102	172,007
1875-76.....	887,484	185,206	243,503	98,322	355,848	278,320
1876-77.....	932,992	232,526	202,726	98,800	246,188	210,220
1877-78.....	1,043,334	225,676	173,987	80,564	262,493	286,961
1878-79.....	1,067,453	240,217	182,954	82,416	404,574	329,578
1879-80.....	976,741	245,773	229,451	105,485	525,554	400,697
1880-81.....	1,017,661	272,834	229,776	108,387	444,722	310,634
1881-82.....	731,408	184,519	241,671	96,014	804,418	629,269
1882-83.....	836,223	242,045	218,425	84,205	701,717	522,505
1883-84.....	879,989	323,638	197,176	71,724	592,974	445,418
1884-85.....	823,691	257,639	170,147	58,585	540,282	373,128
1885-86.....	779,956	215,025	199,344	71,606	565,292	382,983
1886-87.....	835,247	279,400	186,110	60,611	566,921	426,052
1887-88.....	792,954	261,030	206,573	70,530	608,976	412,096
1888-89.....	935,859	372,744	196,558	68,885	564,898	409,081
1889-90.....	1,048,189	481,801	222,345	92,804	529,016	412,036
1890-91.....	945,633	371,823	245,727	113,627	637,950	519,534
1891-92.....	1,121,186	517,980	254,539	119,887	709,306	561,560
1892.....	1,099,185	562,168	253,027	123,972	705,023	556,267
1893.....	1,032,875	611,303	227,003	97,567	686,137	545,793
1894.....	916,117	368,603	212,618	81,442	671,165	487,884
1895.....	952,246	383,500	208,890	72,001	632,482	413,507
1896.....	1,111,633	486,745	207,966	77,037	494,054	341,281
1897.....	1,018,134	293,043	209,091	71,424	450,217	341,729
1898.....	1,088,195	382,909	193,031	62,510	412,063	320,189

NOTE.—Figures for 1894 to 1898 inclusive are exclusive of through movement.

STOCK YARDS RECEIPTS OF LIVE STOCK.

Receipts of Hogs, Cattle and Sheep, at the several Stock Yards at Cincinnati, for the year ending December 31, 1898, and aggregate receipts of Live Stock, with totals for previous commercial years :

YARDS.	HOGS.	CATTLE.	SHEEP.	AGGREGATE.
Cincinnati Union.....	887,524	163,806	389,649	1,440,979
Slimer's.....	183,844	5,111	14,812	153,767
Eggleston Avenue.....	60,592	17	907	61,516
Total, 12 months, 1898.....	1,081,960	168,934	405,368	1,656,262
1897.....	1,008,942	183,927	446,440	1,639,309
1896.....	1,016,038	182,467	505,658	1,704,163
1895.....	926,001	192,026	628,670	1,746,697
1894.....	858,497	169,085	662,918	1,690,500
1893.....	892,688	206,761	615,248	1,714,697
1891-92.....	1,052,208	240,743	711,219	2,004,170
1890-91.....	930,668	216,622	625,817	1,773,107
1889-90.....	910,651	200,222	484,665	1,595,538
1888-89.....	906,501	199,712	522,338	1,628,551
1887-88.....	804,837	210,540	555,399	1,570,776
1886-87.....	855,712	200,128	602,505	1,658,345
1885-86.....	779,956	199,344	565,262	1,544,562

PRICES OF CATTLE AND SHEEP.

Quotations for Cattle, fair to medium quality, and Sheep, good to extra quality, per 100 pounds, alive, at Cincinnati, on Tuesday of each week, in three years:

CATTLE.				SHEEP.			
DATES.	1896	1897	1898	DATES.	1896	1897	1898
January 4..	\$3 25@3 85	\$3 85@3 90	\$3 85@3 75	January 4..	\$4 00@4 65	\$3 00@3 75	\$2 50@3 75
11..	3 25@3 85	3 25@3 75	3 25@3 75	11..	4 00@4 65	3 10@3 75	2 85@3 50
18..	3 25@3 90	3 25@3 85	3 25@3 75	18..	4 00@4 65	3 10@3 75	2 50@3 65
25..	3 25@4 00	3 25@3 75	3 25@3 75	25..	4 00@4 65	3 85@4 00	2 75@3 75
February 1..	3 40@4 00	3 25@3 75	3 25@3 75	February 1..	4 00@4 65	3 85@4 00	2 50@3 75
8..	3 40@4 00	3 25@3 75	3 35@3 85	8..	4 00@4 65	3 75@4 50	2 25@3 75
15..	3 40@4 00	3 25@3 75	3 25@3 75	15..	4 00@4 65	3 50@4 25	2 75@3 75
22..	3 50@4 00	3 25@3 85	3 15@3 65	22..	4 00@4 65	3 50@4 35	2 60@3 65
March 1..	3 40@4 00	3 15@3 75	3 00@3 66	March 1..	4 00@4 75	3 65@4 50	2 65@3 66
8..	3 40@4 00	3 10@3 65	3 25@3 75	8..	4 00@4 75	3 75@4 75	3 00@3 75
15..	3 40@4 00	3 25@3 65	3 25@3 75	15..	3 75@4 50	3 75@4 75	3 00@3 75
22..	3 50@4 10	3 25@3 75	3 25@3 75	22..	3 75@4 50	3 65@4 50	3 00@4 00
29..	3 65@4 15	3 25@3 85	3 10@3 60	29..	4 25@4 75	3 75@4 75	3 35@4 00
April 5..	3 40@4 00	3 15@3 75	3 25@3 75	April 5..	4 10@4 65	4 25@5 00	3 40@4 00
12..	3 50@4 15	3 25@3 80	3 25@3 75	12..	3 85@4 50	4 25@5 00	3 35@4 00
19..	3 60@4 25	3 40@3 90	3 00@3 50	19..	3 85@4 50	4 25@5 00	3 15@3 75
26..	3 50@4 15	3 40@3 90	3 15@3 50	26..	3 50@4 00	4 10@5 00	3 15@3 75
May 3..	3 40@4 10	3 50@4 00	3 35@3 80	May 3..	3 40@4 00	4 10@4 75	3 35@3 85
10..	3 40@4 15	3 40@3 90	3 35@3 75	10..	3 35@4 00	3 85@4 50	3 00@3 50
17..	3 25@4 10	3 60@4 00	3 15@3 60	17..	3 35@4 00	4 00@4 66	2 85@3 50
24..	3 25@4 00	3 50@3 90	3 25@3 65	24..	3 35@4 00	3 65@4 40	3 00@3 50
31..	3 25@4 10	3 35@3 85	3 25@3 65	31..	3 35@4 00	3 75@4 35	3 00@3 50
June 7..	3 10@4 00	3 50@3 90	3 00@3 40	June 7..	3 35@4 00	3 25@4 00	2 85@3 50
14..	3 10@4 00	3 35@3 85	3 15@3 65	14..	3 50@4 25	3 25@4 00	2 75@3 35
21..	3 10@4 00	3 25@3 75	3 00@3 50	21..	3 25@4 00	2 75@3 50	3 00@3 50
28..	3 25@4 10	3 40@4 00	3 00@3 50	28..	3 35@4 10	2 85@3 50	2 90@3 60
July 5..	3 25@4 10	3 25@3 85	3 25@3 75	July 5..	3 15@4 00	2 85@3 50	3 00@3 75
12..	3 25@4 00	3 35@3 85	3 25@3 75	12..	3 25@4 00	2 85@3 50	3 00@4 00
19..	3 25@4 15	3 35@3 90	3 10@3 65	19..	3 35@4 00	3 00@3 65	2 50@3 50
26..	3 25@4 15	3 25@3 75	3 15@3 65	26..	3 40@4 15	3 00@3 75	2 65@3 60
August 2..	3 40@4 25	3 35@3 90	3 25@3 75	August 2..	3 25@4 00	3 00@3 75	2 50@3 85
9..	3 25@4 15	3 25@3 90	3 10@3 50	9..	3 25@4 10	2 90@3 66	2 35@3 35
16..	3 40@4 25	3 00@3 90	3 25@3 75	16..	3 50@5 25	2 85@3 65	2 25@3 25
23..	3 40@4 25	3 00@3 90	3 10@3 65	23..	3 40@4 25	2 75@3 50	2 50@3 25
30..	3 40@4 25	3 00@3 90	3 00@3 65	30..	3 40@4 25	2 75@3 50	2 50@3 40
September 6..	3 85@4 15	3 10@3 75	3 00@3 65	September 6..	3 15@4 00	3 00@3 75	2 50@3 50
13..	3 40@4 25	3 25@3 90	3 00@3 50	13..	3 25@4 25	3 00@3 75	2 25@3 00
20..	3 25@4 15	3 15@3 85	3 00@3 50	20..	3 25@4 15	3 25@4 00	2 50@3 25
27..	3 25@4 15	3 10@3 75	3 10@3 65	27..	3 10@3 90	3 25@4 00	2 35@3 25
October 4..	3 25@4 15	3 00@3 85	3 00@3 40	October 4..	3 25@4 00	3 00@3 75	2 25@3 10
11..	3 25@4 15	3 00@3 85	3 00@3 50	11..	3 35@4 25	2 85@3 65	2 25@3 25
18..	3 25@4 15	3 00@3 85	3 00@3 40	18..	3 25@4 00	3 15@4 00	2 25@3 25
25..	3 25@4 10	3 15@3 85	3 00@3 40	25..	3 25@4 00	3 25@4 00	2 35@3 10
November 1..	3 15@3 90	3 15@3 85	3 00@3 40	November 1..	3 25@4 00	3 25@4 00	2 35@3 15
8..	3 40@4 00	3 25@3 90	3 25@3 65	8..	3 25@4 00	3 35@4 10	2 75@3 50
15..	3 50@4 10	3 25@3 75	3 15@3 50	15..	3 25@4 10	4 00@4 50	2 65@3 35
22..	3 40@3 90	3 25@3 75	3 25@3 65	22..	3 15@4 00	3 60@4 25	2 60@3 50
29..	3 40@3 90	3 25@3 85	3 25@3 75	29..	3 25@4 00	3 65@4 50	2 85@3 50
December 6..	3 25@3 90	3 15@3 85	3 15@3 65	December 6..	3 25@4 00	3 85@4 50	2 65@3 25
13..	3 25@3 90	3 25@3 85	3 15@3 75	13..	3 25@4 00	4 00@4 65	2 65@3 25
20..	3 25@3 90	3 10@3 65	3 00@3 60	20..	3 25@4 00	3 85@4 50	3 00@3 50
27..	3 40@4 00	3 15@3 75	3 10@3 75	27..	3 25@4 00	4 00@4 65	3 00@3 75

EXPORTS OF LIVE STOCK.

Exports of Live Stock from the United States, for years ending June 30:

KINDS.	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906
Cattle	439,255	392,200	372,461	381,722	359,278	287,094	394,607	374,679	394,836	206,786	140,208
Sheep	199,690	244,120	491,565	405,748	132,370	37,260	46,960	60,947	67,521	128,852	143,817
Hogs	14,411	28,751	21,049	7,130	1,553	27,375	31,963	95,654	91,148	45,128	23,755

CINCINNATI PORK PACKING.

Details of Pork Packing, at Cincinnati, for the year ending March 1, 1899, with comparisons for the preceding year, in accordance with returns to the Superintendent of the Cincinnati Chamber of Commerce:

WINTER PACKING.			SUMMER PACKING.		
NOVEMBER 1 TO MARCH 1—FOUR MONTHS.			MARCH 1 TO NOVEMBER 1—EIGHT MONTHS.		
ARTICLES.	1898-99	1897-98	ARTICLES.	1898	1897
Number of Hogs packed.....	297,232	276,420	Number of Hogs packed.....	398,827	358,722
Increase.....	20,812		Increase.....	40,106	
Average live weight, lbs.....	217.80	217.33	Average live weight, lbs.....	204.92	210.56
Increase.....	.47		Decrease.....	5.64	
Average yield of Lard, lbs.....	38.32	39.77	Average yield of Lard, lbs.....	37.58	39.28
Decrease.....	1.45		Decrease.....	1.70	
Percentage yield of Lard.....	17.59	18.30	Percentage yield of Lard.....	18.34	18.65
Decrease.....	.71		Decrease.....	.31	
Cost of Hogs, 100 lbs.....	\$3 52	\$3 59	Cost of Hogs, 100 lbs.....	\$3 84	\$3 75
Decrease.....	.07		Increase.....	.09	
Aggregate live weight, lbs.....	64,739,000	60,084,000	Aggregate live weight, lbs.....	81,728,000	75,534,000
Increase.....	4,655,000		Increase.....	6,194,000	
Green Sides, etc., made, lbs.....	20,716,000	18,626,000	Green Sides, etc., made, lbs.....	25,335,000	23,415,000
Green Hams made, lbs.....	7,121,000	6,609,000	Green Hams made, lbs.....	8,990,000	8,309,000
Green Shoulders made, lbs.....	6,474,000	6,006,000	Green Shoulders made, lbs.....	8,173,000	6,798,000
Total Green Meats, lbs.....	34,311,000	31,243,000	Total Green Meats, lbs.....	42,498,000	38,522,000
Mess Pork made, bbls.....	4	30	Mess Pork made, bbls.....		10
Other Pork made, bbls.....	322	500	Other Pork made, bbls.....	470	193
Total Pork made, bbls.....	326	530	Total Pork made, bbls.....	470	203
Total Lard made, lbs.....	11,389,000	10,994,000	Total Lard made, lbs.....	14,990,000	14,090,000
Tierces of Lard, 330 lbs.....	34,512	33,315	Tierces of Lard, 330 lbs.....	45,424	42,697
Aggregate cost of Hogs.....	\$2,279,000	\$2,157,000	Aggregate cost of Hogs.....	\$3,137,000	\$2,832,000

Total number of Hogs packed, at Cincinnati, each year, ending March 1, for years indicated:

1872-73.....720,565	1879-90.....684,493	1886-87.....479,525	1893-94.....382,818
1873-74.....669,648	1880-81.....632,981	1887-88.....475,418	1894-95.....586,790
1874-75.....696,317	1881-82.....508,548	1888-89.....440,629	1895-96.....559,780
1875-76.....682,142	1882-83.....507,316	1889-90.....464,556	1896-97.....625,570
1876-77.....644,749	1883-84.....489,634	1890-91.....523,810	1897-98.....635,142
1877-78.....766,718	1884-85.....513,016	1891-92.....484,173	1898-99.....696,059
1878-79.....778,101	1885-86.....467,464	1892-93.....456,396	

Average Live Weight and yield of Lard of all kinds of Hogs packed, at Cincinnati, during winter seasons:

YEARS.	Weight.	Lard	YEARS.	Weight.	Lard.	YEARS.	Weight.	Lard.
1869-70.....	282.91	26.16	1879-80.....	266.31	36.18	1889-90.....	255.28	37.90
1870-71.....	298.80	42.62	1880-81.....	268.37	39.46	1890-91.....	237.20	32.03
1871-72.....	289.20	41.02	1881-82.....	263.98	36.79	1891-92.....	242.89	36.00
1872-73.....	304.90	45.67	1882-83.....	276.61	37.07	1892-93.....	228.60	33.70
1873-74.....	280.70	39.70	1883-84.....	262.08	34.13	1893-94.....	239.25	34.56
1874-75.....	278.25	41.77	1884-85.....	265.91	34.69	1894-95.....	235.57	43.76
1875-76.....	278.68	37.80	1885-86.....	272.22	36.08	1895-96.....	233.46	36.54
1876-77.....	274.71	38.20	1886-87.....	265.45	35.06	1896-97.....	230.76	43.90
1877-78.....	294.06	40.96	1887-88.....	249.58	32.51	1897-98.....	217.33	39.77
1878-79.....	270.58	36.84	1888-89.....	270.10	37.85	1898-99.....	217.80	38.32

CINCINNATI PACKING COMPARISONS.

Total number of Hogs packed, at Cincinnati, each winter season, in sixty-seven years, as indicated:

YEARS.	Winter.	YEARS.	Winter.	YEARS.	Winter.	YEARS.	Winter.
1832-33.....	85,000	1849-50.....	393,000	1866-67.....	462,610	1883-84.....	365,451
1833-34.....	123,000	1850-51.....	334,000	1867-68.....	366,631	1884-85.....	385,435
1834-35.....	162,000	1851-52.....	352,000	1868-69.....	356,555	1885-86.....	332,696
1835-36.....	123,000	1852-53.....	361,000	1869-70.....	337,330	1886-87.....	331,401
1836-37.....	103,000	1853-54.....	431,000	1870-71.....	481,560	1887-88.....	309,588
1837-38.....	182,000	1854-55.....	355,786	1871-72.....	630,301	1888-89.....	300,082
1838-39.....	190,000	1855-56.....	405,396	1872-73.....	626,305	1889-90.....	271,513
1839-40.....	95,000	1856-57.....	344,512	1873-74.....	581,253	1890-91.....	301,064
1840-41.....	160,000	1857-58.....	446,677	1874-75.....	560,164	1891-92.....	288,548
1841-42.....	220,000	1858-59.....	382,826	1875-76.....	563,359	1892-93.....	204,410
1842-43.....	250,000	1859-60.....	434,499	1876-77.....	523,576	1893-94.....	189,908
1843-44.....	240,000	1860-61.....	433,799	1877-78.....	632,302	1894-95.....	265,735
1844-45.....	196,000	1861-62.....	474,467	1878-79.....	623,584	1895-96.....	249,640
1845-46.....	305,000	1862-63.....	608,457	1879-80.....	534,559	1896-97.....	240,160
1846-47.....	250,000	1863-64.....	370,623	1880-81.....	522,425	1897-98.....	276,420
1847-48.....	475,000	1864-65.....	350,600	1881-82.....	384,878	1898-99.....	297,282
1848-49.....	410,000	1865-66.....	354,079	1882-83.....	425,400		

Total number of Hogs packed, at Cincinnati, each summer season, March 1 to November 1, for years indicated:

1872.....	94,260	1879.....	149,934	1886.....	148,124	1893.....	192,910
1873.....	88,395	1880.....	110,556	1887.....	165,880	1894.....	271,055
1874.....	136,153	1881.....	123,670	1888.....	140,547	1895.....	310,140
1875.....	118,788	1882.....	81,916	1889.....	193,043	1896.....	385,410
1876.....	121,173	1883.....	124,183	1890.....	222,756	1897.....	358,722
1877.....	134,416	1884.....	127,581	1891.....	195,625	1898.....	398,827
1878.....	154,517	1885.....	134,768	1892.....	251,986		

LIVE STOCK IN THE UNITED STATES.

Compilation from reports of the Department of Agriculture showing number of Cattle, Sheep and Swine in the United States, with aggregates for each year, for the month of January in years indicated:

YEARS.	MILCH Cows.	OTHER CATTLE.	TOTAL CATTLE.	TOTAL SHEEP.	TOTAL SWINE.	AGGREGATE NUMBER.
1881.....	12,368,653	20,937,702	33,306,355	43,576,899	36,227,603	113,110,887
1882.....	12,611,632	23,280,238	35,891,870	45,016,224	44,122,200	125,030,284
1883.....	13,125,685	26,046,077	41,171,762	49,237,291	43,270,086	134,679,139
1884.....	13,501,206	29,046,101	42,547,307	50,626,626	44,200,893	147,374,826
1885.....	13,904,722	29,866,573	43,771,295	50,360,243	45,142,657	139,274,127
1886.....	14,235,388	31,275,242	45,510,630	48,322,331	46,092,043	139,925,003
1887.....	14,522,083	33,511,750	48,033,833	44,759,314	44,612,836	137,406,989
1888.....	14,856,414	34,378,363	49,234,777	45,544,755	44,346,525	137,126,066
1889.....	14,238,625	35,032,417	50,331,042	42,599,079	50,301,592	143,231,713
1890.....	15,952,883	36,849,024	52,801,907	44,336,072	51,602,780	148,740,753
1891.....	16,019,591	36,875,643	52,895,239	43,431,136	50,625,106	146,951,489
1892.....	16,416,351	37,651,239	54,067,590	44,938,365	52,398,019	151,403,974
1893.....	16,424,087	35,984,196	52,378,283	47,253,553	46,094,807	145,726,615
1894.....	16,487,400	36,608,168	53,095,568	45,048,017	45,206,498	143,350,044
1895.....	16,504,629	34,364,216	50,868,845	42,294,064	44,165,716	137,328,625
1896.....	16,137,586	32,085,409	48,222,995	38,298,783	42,842,759	129,364,537
1897.....	15,941,727	30,508,408	46,450,135	36,818,643	40,600,276	123,869,054
1898.....	15,840,886	29,264,197	45,105,083	37,656,960	39,759,993	122,522,036
1899.....	15,980,115	27,994,225	43,974,340	39,114,453	38,651,631	121,750,424

WINTER PACKING AT PROMINENT CITIES.

The following shows the Number of Hogs Packed in each of the larger cities mentioned, and totals for all other places, with the average Live Weight of Hogs, per head, Yield of Lard, and Cost per 100 pounds gross, for the period from November 1 to March 1, with comparisons, according to special investigations and compilations of the *Cincinnati Price Current*:

LOCALITIES.	Number of Hogs Packed.		Average Live Weight.		Average Yield of Lard.		Average Cost per 100 lbs.	
	1898-99	1897-98	1898-99	1897-98	1898-99	1897-98	1898-99	1897-98
Chicago, Ill.....	3,249,385	2,672,730	244.78	248.69	39.14	37.38	\$3.62	\$3.58
Kansas City, Mo.....	1,219,797	1,305,131	224.94	229.06	38.36	36.50	3.45	3.50
South Omaha, Neb.....	790,943	550,175	258.98	271.34	39.34	37.12	3.44	3.44
St. Louis, Mo.....	729,086	526,440	208.00	205.00	32.25	32.00	3.48	3.54
Indianapolis, Ind.....	442,455	428,462	209.11	218.25	34.04	32.70	3.54	3.58
Cincinnati, Ohio.....	297,232	276,420	217.80	217.33	38.32	39.77	3.52	3.59
Milwaukee, Wis.....	170,906	239,191	242.34	236.01	29.67	28.60	3.55	3.60
Cudahy, Wis.....	275,125	268,883	231.20	230.00	25.00	30.00	3.55	3.54
Cleveland, Ohio.....	182,312	201,405	190.00	195.00	26.00	27.00	3.70	3.70
St. Paul, Minn.....	168,485	128,110	213.60	207.31	34.52	29.33	3.39	3.68
Cedar Rapids, Iowa.....	190,880	190,569	240.00	227.70	35.00	33.00	3.40	3.45
Ottumwa, Iowa.....	278,904	246,146	219.00	217.75	39.00	30.00	3.40	3.45
Louisville, Ky.....	195,705	177,268	181.87	180.79	24.11	24.61	3.43	3.66
Sioux City, Iowa.....	155,723	125,400	286.63	273.76	42.90	38.00	3.36	3.40
Detroit, Mich.....	136,000	115,500	195.00	200.00	27.00	27.00	3.65	3.65
St. Joseph, Mo.....	468,449	178,500	238.00	265.00	35.00	34.75	3.52	3.38
Nebraska City, Neb.....	108,816	85,552	265.00	292.00	30.00	42.00	3.58	3.58
Keokuk, Iowa.....	.....	60,242	.....	211.00	.....	30.00	.....	3.39
Marshalltown, Iowa.....	45,278	51,726	266.00	263.00	40.90	38.14	3.32	3.41
Wichita, Kan.....	52,019	65,000	238.71	.....	36.00	.....	3.31	.....
All Other.....	562,645	547,935	219.94	232.62	31.67	31.46	3.45	3.43
Aggregates, etc.....	9,720,145	8,440,785	232.65	235.35	35.53	34.73	\$3.52	\$3.53

YEARLY PACKING AT PROMINENT CITIES.

Total number of Hogs packed in the West, at the fifteen cities mentioned, for twelve months ending March 1, with comparisons for previous years, according to compilations of the *Cincinnati Price Current*:

LOCALITIES.	1898-99	1897-98	1896-97	1895-96	1894-95	1893-94	1892-93	1891-92
Chicago, Ill.....	8,016,675	6,747,265	5,967,595	5,490,410	5,293,202	4,219,567	4,352,095	5,249,796
KANSAS CITY, Mo.....	3,107,053	3,184,386	2,393,739	2,104,213	2,105,333	1,473,223	1,695,145	1,813,066
South Omaha, Neb.....	1,977,922	1,570,050	1,188,879	1,002,800	1,550,821	1,023,261	1,124,723	1,298,772
St. Louis, Mo.....	1,580,286	1,238,810	1,089,533	837,377	869,458	578,873	530,634	664,188
Indianapolis, Ind.....	1,088,556	988,559	844,335	675,340	683,256	510,813	539,198	607,002
Cincinnati, Ohio.....	696,059	635,143	625,570	559,780	536,790	382,818	456,396	484,173
Milwaukee and Cudahy, Wis.....	1,098,408	1,002,034	786,593	717,314	702,877	345,896	387,977	576,563
Cleveland, Ohio.....	496,624	540,002	526,702	482,752	453,108	405,124	449,081	303,232
St. Paul, Minn.....	354,485	173,110	251,463	348,035	380,401	229,278	218,982	276,246
Cedar Rapids, Iowa.....	483,625	457,792	435,819	347,904	353,808	313,141	299,945	429,056
Ottumwa, Iowa.....	702,173	627,049	505,709	335,053	385,400	225,000	254,244	241,600
Louisville, Ky.....	459,521	384,238	274,400	238,162	262,273	217,947	213,264	161,365
St. Joseph, Mo.....	1,120,449	423,500	177,100	215,500	417,291	261,500	266,000	155,000
Sioux City, Iowa.....	397,893	292,177	209,614	190,000	335,330	200,900	313,973	255,068
Nebraska City, Neb.....	288,816	216,460	110,906	125,590	233,576	179,182	121,963	197,423
Totals.....	21,878,545	18,480,575	15,388,336	13,620,230	14,562,917	10,566,523	11,223,640	12,702,602
All Other.....	1,773,150	1,720,685	1,510,622	1,390,405	1,440,728	1,038,483	1,166,990	1,755,012
Aggregates.....	23,651,695	20,201,260	16,928,978	15,010,635	16,003,645	11,605,006	12,390,630	14,457,614

NOTE.—The following totals represent additional localities the past year: Detroit, 310,600; Pittsburgh and Allegheny, 162,000; Marshalltown, 123,301; Wichita, 149,491; Bloomington, 102,412; Quincy, 80,717; Lincoln, 63,907; Denver, 83,000.

YEARLY COMPARISONS OF PORK PACKING.

Total number of Hogs packed in the West during the summer and winter seasons, and for twelve months ending March 1, with yearly production of Green Meats and Lard, and aggregate cost of Hogs, according to special reports of the *Cincinnati Price Current*:

YEARS.	Summer Season.	Winter Season.	Year ending March 1.	Green Meats Produced.	Total Lard Produced.	Total Cost of Hogs.
1877-78	2,543,120	6,505,446	9,048,566	1,368,612,000	336,557,000	\$106,418,000
1878-79	3,378,044	7,480,648	10,858,792	1,579,311,000	408,702,000	94,980,000
1879-80	4,051,248	6,950,451	11,001,699	1,556,516,000	382,020,000	119,362,000
1880-81	5,323,898	6,919,456	12,243,354	1,694,253,000	409,875,000	134,944,000
1881-82	4,803,689	5,747,760	10,551,449	1,468,368,000	363,772,000	154,422,000
1882-83	3,210,787	6,132,212	9,342,999	1,315,056,000	316,063,000	154,100,000
1883-84	3,781,086	5,402,064	9,183,100	1,280,065,000	318,472,000	122,388,000
1884-85	4,058,868	6,460,240	10,519,108	1,497,357,000	364,375,000	124,754,000
1885-86	4,964,572	6,298,995	11,263,567	1,577,932,000	390,740,000	106,053,000
1886-87	5,644,003	6,439,009	12,083,012	1,619,126,000	394,118,000	119,935,000
1887-88	5,611,526	5,921,181	11,532,707	1,518,677,000	357,755,000	133,037,000
1888-89	5,315,122	5,483,852	10,798,974	1,499,251,000	359,927,000	140,908,000
1889-90	6,881,501	6,663,802	13,545,303	1,885,424,000	489,727,000	134,169,000
1890-91	9,540,008	8,173,126	17,713,134	2,371,376,000	618,732,000	158,445,000
1891-92	6,696,398	7,761,216	14,457,614	1,907,903,000	479,045,000	141,698,000
1892-93	7,757,110	4,633,520	12,390,630	1,557,111,000	388,985,000	155,766,000
1893-94	6,720,924	4,884,082	11,605,006	1,583,703,000	409,052,000	166,090,000
1894-95	8,812,125	7,191,520	16,003,645	2,072,195,000	533,055,000	172,679,000
1895-96	8,194,335	6,815,800	15,010,635	1,958,255,000	513,467,000	142,268,000
1896-97	9,979,888	6,949,090	16,928,978	2,250,158,000	662,040,000	135,456,000
1897-98	11,760,475	8,440,785	20,201,260	2,659,190,000	721,354,000	174,382,000
1898-99	13,931,550	9,720,145	23,651,695	3,071,396,000	806,473,000	208,696,000

WINTER PACKING COMPARISONS.

Total number of Hogs packed in the West during winter seasons, and cost of Hogs, per 100 pounds, live weight, according to special reports of the *Cincinnati Price Current*:

YEARS.	Number of Hogs Packed.	Cost per 100 lbs.	YEARS.	Number of Hogs Packed.	Cost per 100 lbs.
1847-48	1,710,000	\$2 60	1873-74	5,466,200	\$4 34
1848-49	1,560,000	3 75	1874-75	5,566,226	6 66
1849-50	1,652,220	2 13	1875-76	4,880,135	7 05
1850-51	1,332,867	3 00	1876-77	5,105,308	5 74
1851-52	1,182,846	3 56	1877-78	6,505,446	3 99
1852-53	2,201,110	4 81	1878-79	7,480,648	2 85
1853-54	2,534,770	3 35	1879-80	6,950,451	4 18
1854-55	2,124,404	3 37	1880-81	6,919,456	4 64
1855-56	2,499,502	4 60	1881-82	5,747,760	6 06
1856-57	1,818,468	4 75	1882-83	6,132,212	6 28
1857-58	2,210,778	3 89	1883-84	5,402,064	5 18
1858-59	2,465,552	5 02	1884-85	6,460,240	4 29
1859-60	2,350,822	4 73	1885-86	6,298,995	3 66
1860-61	2,155,702	4 57	1886-87	6,439,009	4 19
1861-62	2,893,666	3 42	1887-88	5,921,181	5 04
1862-63	4,069,520	3 36	1888-89	5,483,852	4 99
1863-64	3,261,105	5 36	1889-90	6,663,802	3 66
1864-65	2,422,779	11 46	1890-91	8,173,126	3 54
1865-66	1,785,955	9 34	1891-92	7,761,216	3 91
1866-67	2,490,791	5 78	1892-93	4,633,520	6 54
1867-68	2,781,084	6 36	1893-94	4,884,082	5 26
1868-69	2,499,873	8 18	1894-95	7,191,520	4 28
1869-70	3,635,312	9 22	1895-96	6,815,800	3 68
1870-71	3,695,251	5 26	1896-97	6,949,090	3 30
1871-72	4,838,558	4 12	1897-98	8,440,785	3 53
1872-73	5,410,314	3 73	1898-99	9,720,145	3 52

WINTER PACKING IN THE WEST.

Number of Hogs packed in the West during the winter season, November 1 to March 1, 1898-99, with comparisons for corresponding period in the preceding year, according to compilations of the *Cincinnati Price Current*:

LOCALITIES.	1898-99	1897-98	LOCALITIES.	1898-99	1897-98
OHIO.			KANSAS.		
CINCINNATI.....	297,232	276,420	Leavenworth.....	7,000	5,000
Cleveland.....	182,312	201,405	Topeka.....	23,712	17,491
Dayton.....	30,000	15,000	Wichita.....	52,019	65,000
Hamilton.....	4,500	4,200	Total, Kansas.....	82,731	87,491
Lancaster.....	1,200	1,200	NEBRASKA.		
New Bremen.....	1,200	300	SOUTH OMAHA.....	790,943	550,175
Sandusky.....	4,500	3,300	Lincoln.....	24,000	19,641
Springfield.....	.....	2,500	Nebraska City.....	108,816	85,552
Toledo.....	2,215	3,500	Total, Nebraska.....	923,759	655,368
Total, Ohio.....	523,159	508,825	Exclusive of South Omaha.	132,816	105,193
Exclusive of Cincinnati....	225,927	231,905	MINNESOTA.		
INDIANA.			Austin.....	6,570	5,200
INDIANAPOLIS.....	442,455	428,462	New Brighton.....	.....	32,000
Evansville.....	9,500	7,300	St. Paul.....	168,485	128,110
Fort Wayne.....	12,500	9,500	Total, Minnesota.....	175,055	165,310
Huntingburg.....	700	700	WISCONSIN.		
Lafayette.....	5,000	6,000	MILWAUKEE.....	170,906	239,191
Logansport.....	9,400	8,000	CUDAHY.....	275,125	268,883
Total, Indiana.....	479,555	459,962	Eau Claire.....	20,916	18,372
Exclusive of Indianapolis	37,100	31,500	Jefferson.....	10,000	10,000
ILLINOIS.			La Crosse.....	9,000	7,500
CHICAGO.....	3,249,385	2,672,730	Total, Wisconsin.....	485,947	543,946
Alton.....	11,000	8,488	Exclusive of 2 large points.	39,916	35,872
Bloomington.....	40,619	32,848	MICHIGAN.		
Peoria.....	9,494	9,931	Adrian.....	.....	500
Quincy.....	44,950	37,500	Detroit.....	136,000	115,500
Rock Island.....	.....	6,751	Owosso.....	3,597	4,000
Teutopolis.....	675	600	Total, Michigan.....	139,597	120,000
Total, Illinois.....	3,356,123	2,768,848	KENTUCKY.		
Exclusive of Chicago.....	106,738	96,118	LOUISVILLE.....	195,705	177,268
IOWA.			Bowling Green.....	3,500	4,000
Burlington.....	3,000	3,565	Total, Kentucky.....	199,205	181,268
Cedar Rapids.....	190,880	190,569	Exclusive of Louisville....	3,500	4,000
Clinton.....	33,500	18,000	TENNESSEE.		
Davenport.....	18,000	17,400	Bristol.....	.....	1,500
Keokuk.....	.....	60,242	Knoxville.....	7,240	16,000
Marshalltown.....	45,278	51,726	Morristown.....	2,000	1,000
Ottumwa.....	278,904	246,146	Nashville.....	.....	54,330
Sioux City.....	155,728	125,400	Total, Tennessee.....	9,240	72,880
Total, Iowa.....	725,285	713,048	MISCELLANEOUS.		
MISSOURI.			Pittsburgh and Allegheny, Pa.	80,000	68,000
KANSAS CITY.....	1,219,797	1,305,131	Denver, Colo.....	33,000	24,000
ST. LOUIS.....	729,086	528,440	Dallas, Tex.....	13,947	15,582
Cape Girardeau.....	3,000	2,450	Fort Worth, Tex.....	.....	41,338
Jackson.....	2,250	1,863	Other.....	70,000	.....
Sedalia.....	960	1,085	Total, Miscellaneous.....	196,947	148,920
St. Joseph.....	468,449	178,500	Aggregate, in the West.		
Total, Missouri.....	2,423,524	2,015,469		9,720,145	8,440,785
Exclusive of 2 large points.	474,659	183,898			

SUMMER PACKING IN THE WEST.

Number of Hogs packed in the West during the summer season, March 1 to November 1, 1898, with comparisons for corresponding period in the preceding year, according to compilations of the *Cincinnati Price Current*:

LOCALITIES.	1898	1897	LOCALITIES.	1898	1897
Chicago, Ill.....	4,767,290	4,074,535	Lincoln, Neb.....	39,907	89,570
Kansas City, Mo.....	1,887,256	1,879,255	Bloomington, Ill.....	61,798	87,008
South Omaha, Neb.....	1,186,979	1,019,875	Peoria, Ill.....	13,409	86,094
St. Louis, Mo.....	851,200	712,370	Quincy, Ill.....	35,767	20,000
Indianapolis, Ind.....	656,101	560,097	Alton, Ill.....	12,000	18,140
St. Joseph, Mo.....	652,000	245,000	Fort Wayne, Ind.....	10,500	5,000
Cincinnati, Ohio.....	398,827	358,722	Lafayette, Ind.....	5,000	5,000
Milwaukee, Wis.....	268,959	214,925	Logansport, Ind.....	5,500	6,500
Cudahy, Wis.....	388,418	279,035	Dayton, Ohio.....	35,500	20,000
Ottumwa, Iowa.....	423,269	380,908	Hamilton, Ohio.....	6,000	5,600
Cleveland, Ohio.....	314,812	388,597	Springfield, Ohio.....	1,800	8,500
Cedar Rapids, Iowa.....	292,745	267,228	Toledo, Ohio.....	4,550	.....
Louisville, Ky.....	263,816	206,970	Austin, Minn.....	8,430	8,100
Sioux City, Iowa.....	242,170	166,777	New Brighton, Minn.....	23,000	23,000
St. Paul, Minn.....	186,000	45,000	Eau Claire, Wis.....	19,373	16,479
Nebraska City, Neb.....	180,000	130,908	Knoxville, Tenn.....	3,000	3,800
Detroit, Mich.....	174,600	153,500	Nashville, Tenn.....	6,700	715
Wichita, Kan.....	97,472	105,000	Pittsburgh and Allegheny, Pa.....	82,000	50,000
Marshalltown, Iowa.....	78,023	55,163	Denver, Colo.....	50,000	45,000
Keokuk, Iowa.....	59,513	64,129	Fort Worth, Texas.....	30,000	68,007
Clinton, Iowa.....	32,000	.....	Dallas, Texas.....	20,284	38,580
Davenport, Iowa.....	14,000	14,400	Des Moines, Iowa.....	.....	3,600
Burlington, Iowa.....	3,839	3,500			
Topeka, Kan.....	34,248	26,898			
Leavenworth, Kan.....	9,000	7,000			
			Total, all localities.....	13,931,550	11,760,475

STOCKS OF HOG PRODUCT.

Total stocks of Hog Product in the West, on March 1, yearly, according to special reports of the *Cincinnati Price Current*:

YEARS.	Meats, pounds.	Pork, pounds.	Meats and Pork, lbs.	Lard, pounds.	Lard, tierces.	Total Product, lbs.
1882.....	296,012,000	74,480,000	370,492,000	75,240,000	228,000	445,732,000
1883.....	328,880,000	80,845,000	409,725,000	68,079,000	206,300	477,804,000
1884.....	240,875,000	55,884,000	296,759,000	65,967,000	199,900	362,726,000
1885.....	323,030,000	66,591,000	389,621,000	63,545,000	192,500	453,166,000
1886.....	327,315,000	81,579,000	408,894,000	74,802,000	226,700	483,696,000
1887.....	290,190,000	53,902,000	344,092,000	57,859,000	175,300	401,951,000
1888.....	310,905,000	46,668,000	357,568,000	46,899,000	142,100	404,467,000
1889.....	299,777,000	45,157,000	336,000,000	29,600,000	89,800	365,600,000
1890.....	336,000,000	44,000,000	380,000,000	34,000,000	103,000	414,000,000
1891.....	531,000,000	88,000,000	619,000,000	78,000,000	238,000	697,000,000
1892.....	454,000,000	75,000,000	529,000,000	55,000,000	168,000	584,000,000
1893.....	216,000,000	26,000,000	242,000,000	12,000,000	36,000	254,000,000
1894.....	250,000,000	26,000,000	276,000,000	13,000,000	41,000	289,000,000
1895.....	441,000,000	47,000,000	488,000,000	32,000,000	98,000	520,000,000
1896.....	357,000,000	48,000,000	405,000,000	58,000,000	176,000	463,000,000
1897.....	389,000,000	49,000,000	438,000,000	117,000,000	356,000	555,000,000
1898.....	465,000,000	44,000,000	509,000,000	80,000,000	242,000	589,000,000
1899.....	564,000,000	48,000,000	612,000,000	83,000,000	252,000	695,000,000

NOTE.—Eastern stocks of Hog Product on March 1, 1899, were as follows: Meats, 76,000,000 pounds; Pork, 42,000 barrels; Lard, 44,000 tierces. On March 1, 1898: Meats, 75,000,000 pounds; Pork, 37,000 barrels; Lard, 48,000 tierces. On March 1, 1897: Meats, 65,000,000 pounds; Pork, 39,000 barrels; Lard, 51,000 tierces.

AVERAGE ANNUAL PRICES OF STAPLE PRODUCTS.

Average annual prices of Staple Articles indicated, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently :

YEARS.	Butter, Dairy.	Butter, Creamery.	Butterine.	Cheese, Factory.	Eggs, Selected.	Beans, Navy.	Potatoes, Standard.	Apples, Green.	Apples, Dried.	Peaches, Dried.
	Lb.	Lb.	Lb.	Lb.	Doz.	Bush.	Bbl.	Bbl.	Lb.	Lb.
1879-80.	17.44	26.60	.....	11.47	12.37	\$1 56	\$1 16	\$2 55	6.43	7.79
1880-81.	22.02	30.64	15.50	11.41	18.00	2 13	2 18	2 16	4.14	5.77
1881-82.	26.63	35.90	17.00	11.36	18 92	3 07	3 30	3 51	5.95	6.85
1882-83.	28.16	32.05	17.04	10.88	18.58	2 39	2 09	3 31	6.76	6.28
1883-84.	24.18	31.01	15.33	9.62	18.85	2 50	1 47	3 24	6.01	6.07
1884-85.	16.45	25.34	14.56	9.24	16.59	1 50	1 59	2 15	3.31	7.29
1885-86.	14.12	30.07	11.93	9.41	18.58	1 50	1 54	1 35	3.40	3.20
1886-87.	18.82	24.52	14.50	11.19	14.60	1 62	1 69	2 59	3.99	5.58
1887-88.	17.49	23.99	15.19	10.39	15.84	2 46	2 74	2 20	6.08	6.97
1888-89.	14.66	22.01	16.29	9.69	13.50	1 94	1 30	1 54	3.01	2.92
1889-90.	13.50	20.81	15.50	9.00	13.54	1 93	1 67	2 82	3.72	3.11
1890-91.	14.98	22.89	16.23	9.60	16.30	2 28	2 99	3 49	3.07	8.16
1891-92.	16.33	23.92	17.25	10.17	15.77	1 98	1 45	2 14	3.40	2.74
1892.	17.03	24.27	18.09	10.00	15.66	1 91	1 75	2 50	3.35	3.10
1893.	19.00	25.00	16.90	10.18	16.30	1 99	2 30	2 90	5.04	4.48
1894.	12.88	18.92	14.97	9.75	12.41	1 79	2 08	3 30	5.55	5.65
1895.	10.54	17.13	14.25	9.00	13.79	1 85	1 56	2 02	4.52	7.40
1896.	8.60	14.50	12.50	8.85	10.75	1 10	1 90	1 80	2.25	6.25
1897.	9.65	15 45	12.80	9.05	10.79	1 98	1 54	1 97	2.64	7.13
1898.	11.03	16 46	13.75	8.68	12.14	1 21	1 98	2 76	4.31	8.05

YEARS.	Clover Seed.	Timothy Seed	Flaxseed.	Linseed Oil.	Bran.	Middlings, Fine.	Middlings, Coarse.	Shipstuf.	Hay, Timothy	Bark, Tanners'.
	Lb.	Bush.	Bush.	Gal.	Ton.	Ton.	Ton.	Ton.	Ton.	Cord.
1879-80.	7.16	\$2 36	\$1 21	71	\$12 03	\$18 45	\$15 82	\$13 11	\$15 87	\$12 33
1880-81.	7.63	2 45	1 11	54	13 11	18 91	16 56	14 40	16 36	18 06
1881-82.	8.00	2 42	1 19	58	17 78	25 44	22 98	19 77	17 90	14 16
1882-83.	11.44	1 70	1 12	52	13 25	19 00	16 91	14 55	12 39	14 27
1883-84.	8.81	1 35	1 31	55	13 88	18 62	16 17	14 99	11 63	13 81
1884-85.	8.02	1 41	1 31	49	12 96	16 18	14 49	13 75	12 81	11 02
1885-86.	9.27	1 83	1 06	41	11 76	14 84	13 26	11 85	12 16	12 61
1886-87.	7.05	1 87	97	40	12 85	14 62	13 21	12 94	11 17	12 43
1887-88.	6.77	2 44	1 14	50	15 66	17 71	16 56	15 83	14 79	12 22
1888-89.	7.78	1 50	1 25	57	12 07	13 86	12 66	11 92	12 74	10 91
1889-90.	5.64	1 30	1 26	59	11 16	12 76	11 49	11 13	10 56	13 64
1890-91.	6.88	1 30	1 18	53	16 64	19 57	18 27	16 99	10 58	11 87
1891-92.	8.43	1 27	92	37	14 25	16 20	15 55	14 15	11 25	10 48
1892.	9.70	1 47	95	40	13 67	15 11	13 94	13 28	11 10	11 04
1893.	10.67	1 68	1 05	45	13 35	14 76	13 18	13 35	12 55	11 17
1894.	8.80	2 10	1 16	50	13 15	14 10	13 40	13 15	10 95	10 15
1895.	7.64	2 07	1 08	51	13 25	14 60	13 30	13 25	12 70	9 50
1896.	6.74	1 39	80	35	8 90	9 50	9 00	8 90	9 20	9 20
1897.	5.82	1 20	73	32	9 55	10 35	10 10	.....	9 80	9 25
1898.	5.08	1 11	87	39	11 92	12 52	13 23	.....	8 67	8 90

NOTE.—Butter and Cheese, prime to choice; Beans, prime quality; Potatoes, leading varieties; Apples, green, prime to choice; Apples and Peaches, dried, prime to choice; from 1895, Peaches represent California product. All prices refer to lots in store. Clover, Timothy and Flaxseed, prime to choice, on arrival; Bran, Middlings, Shipstuf, Hay and Bark, on arrival.

AVERAGE ANNUAL PRICES OF STAPLE PRODUCTS.

Average annual prices of Staple Articles indicated, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently :

YEARS.	Cattle, gross.	Sheep, gross.	Hogs, gross.	Pork Barrels.	Whisky Barrels.	Ohio River Salt.	Liverpool Salt.	Leaf Tobacco.	Peanuts, White.	Lard Oil.	Carbon Oil, 120° flash test.	Carbon Oil, 110° fire test.
	100 Lbs.	100 Lbs.	100 Lbs.	Each.	Each.	Bbl.	Bag.	Lb.	Lb.	Gal.	Gal.	Gal.
1879-80.....	\$2 84	\$4 56	\$4 36	90	\$1 29	\$1 23	\$1 12	11.83	4.26	59	12.54	10.81
1880-81.....	3 45	4 66	4 61	85	1 84	1 05	1 04	14.25	3.91	79	12.47	10.73
1881-82.....	3 97	4 90	6 24	90	1 86	1 20	1 06	10.86	6.87	94	9.03	8.88
1882-83.....	3 85	4 76	6 44	88	1 41	1 05	1 22	10.84	6.68	91	10.42	9.41
1883-84.....	3 96	4 68	5 24	91	1 42	1 06	1 09	10.00	6.65	69	10.01	9.25
1884-85.....	3 53	3 99	4 44	82	1 42	1 00	93	9.50	3.41	58	8.93	8.19
1885-86.....	3 24	4 13	3 82	83	1 89	97	92	8.00	3.78	51	8.65	8.21
1886-87.....	2 98	4 10	4 28	81	1 35	87	96	10.80	3.64	55	8.04	7.72
1887-88.....	3 04	4 58	5 18	78	1 29	94	99	15.00	3.63	61	8.16	7.75
1888-89.....	2 84	4 46	5 15	85	1 44	98	99	10.25	5.57	68	8.19	7.50
1889-90.....	2 90	4 84	3 74	83	1 50	99	99	9.25	6.50	57	8.38	7.69
1890-91.....	3 28	4 83	3 64	79	1 51	98	1 15	9.00	3.50	52	7.82	.....
1891-92.....	3 17	4 79	3 90	70	1 52	92	1 17	9.75	3.00	54	6.32	.....
1892.....	3 22	4 86	5 05	71	1 52	92	1 17	10.00	4.00	61	6.25	.....
1893.....	3 61	4 20	6 90	76	1 52	89	1 18	11.85	4 00	86	6.25	.....
1894.....	3 35	3 10	5 10	79	1 52	84	1 12	10 05	2.10	64	6.25	.....
1895.....	3 85	3 30	4 35	78	1 60	84	80	9.40	3.86	55	7.87	.....
1896.....	3 40	3 15	3 50	81	1 53	75	80	6.95	4.23	46	7.30	.....
1897.....	3 54	3 78	3 32	80	1 53	75	.....	8.05	3.54	38	6.75	.....
1898.....	3 70	3 87	3 84	80	1 51	77	.....	12.58	3.91	45	6.86	.....

YEARS.	Tallow.	Hides.	Leather.	Wool.	Feathers.	Hops.	Lead.	Shot.	Nails.	Candles.	Soap.	Starch.
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	25 Lbs.	Keg.	Lb.	Lb.	Lb.
1879-80.....	6.08	9.65	34.38	42.79	45	37.58	4.99	\$1 86	\$3 60	12.47	5.21	3.06
1880-81.....	6.30	9.93	36.00	39.61	48	22.50	4.60	1 87	2 82	13 10	4.87	3.10
1881-82.....	8.23	9.89	37.20	35.47	50	30.64	4.92	1 79	3 31	14.86	6.59	4.21
1882-83.....	8.25	9.38	36.69	35.73	57	78.07	4.39	1 75	3 16	15 00	6.62	3.93
1883-84.....	7.26	9.44	33.12	31.50	53	28.03	3.71	1 70	2 46	14.86	6.62	3.05
1884-85.....	6.18	9.22	29.87	28.52	48	18.66	3.65	1 50	2 18	12.62	6.18	2.91
1885-86.....	4.82	9.70	29.46	30.07	45	13.95	4.50	1 49	2 26	10.25	5.24	2.52
1886-87.....	4.22	9.17	30.78	31.10	40	25.35	4.30	1 37	2 24	8.09	4.43	2.48
1887-88.....	4.56	7.98	29.25	27.37	40	15.80	4.42	1 23	1 97	8.42	4.69	2.69
1888-89.....	5.12	7.00	29.49	29.55	44	22.46	3.82	1 12	1 87	9.14	5.36	2.44
1889-90.....	4.52	6.77	27.82	30.15	42	17.40	3.94	1 12	2 26	8.50	5.25	2.61
1890-91.....	4.90	5.75	27.70	29.67	41	34.93	4.44	1 37	1 84	8.46	6.75	4.00
1891-92.....	4.67	4.66	26.87	25.87	43	24.47	4.14	1 87	1 66	9.08	6.75	3.68
1892.....	4.65	4.44	26.31	26.50	45	26.18	4.00	1 36	1 69	8.80	6.75	3.37
1893.....	5.56	4.00	23.84	25.70	41	23.07	3 60	1 39	1 36	8.97	6.75	3.82
1894.....	5.15	3.66	22.44	19.60	35	16.13	3.07	1 10	1 20	8.31	6.75	3.19
1895.....	4.67	6.02	26.60	18.53	37	9.25	3.12	1 14	1 63	8.04	6.75	2.86
1896.....	3.75	5.52	23.96	17.81	40	8.40	2.81	1 16	2 36	7.44	6.25	2.60
1897.....	3.59	7.73	25.92	24.45	35	12.20	3.55	1 12	1 69	6.57	6.25	2.36
1898.....	3.90	8.71	25.96	24.95	34	15.90	3.77	1 08	1 48	6.72	6.25	2.34

NOTE.—Cattle, prime beef; Sheep, good to extra mutton; Hogs, average of winter packing season; Salt, Ohio River and (Kanawha), barrel of 280 pounds; Liverpool Salt, coarse grade; Leaf Tobacco, white burley, basis of sales of all grades; Tallow, prime city-rendered; Hides, light to heavy, wet salted; Leather, best light to heavy city-tanned, oak sole; Wool, Ohio, fleece-washed; Feathers, prime; Hops, choice; Nails, 12d; Candles, star; Soap, best Cincinnati brands.

MOVEMENT OF SUNDRY STAPLE PRODUCTS.

Receipts and shipments of Staple Products enumerated, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently:

YEARS.	HAY.		BRAN, ETC.		HOPS.		FEATHERS.		PEANUTS.	
	Receipts, tons.	Shipm'ts, tons.	Receipts, tons.	Shipm'ts, tons.	Receipts, bales.	Shipm'ts, bales.	Receipts, sacks.	Shipm'ts, sacks.	Receipts, bush.	Shipm'ts, bush.
1879-80.....	45,936	5,430	19,161	10,654	8,748	2,648	9,780	8,608	563,770	382,320
1880-81.....	63,167	17,092	19,650	13,065	9,824	2,311	11,923	8,876	685,835	539,105
1881-82.....	65,965	11,512	16,604	9,977	11,838	3,712	10,155	11,542	342,420	417,035
1882-83.....	46,649	4,538	30,190	27,427	9,861	4,199	16,818	9,897	426,955	434,625
1883-84.....	52,394	13,943	21,120	16,026	11,560	5,030	8,806	12,603	622,990	440,530
1884-85.....	65,837	22,457	25,935	17,442	13,622	5,511	9,540	9,613	929,100	515,800
1885-86.....	64,610	22,244	18,063	13,371	14,804	6,280	9,248	8,615	600,350	390,440
1886-87.....	65,266	21,229	19,485	17,400	12,186	5,678	8,425	10,825	407,235	441,965
1887-88.....	66,688	24,938	15,483	12,707	17,159	6,550	8,850	10,247	397,960	354,275
1888-89.....	111,696	56,023	26,268	21,258	13,489	6,875	12,360	10,348	281,900	319,275
1889-90.....	97,089	43,883	25,802	20,915	16,097	7,070	12,185	11,784	259,205	315,920
1890-91.....	110,979	55,323	31,745	26,962	14,027	5,597	13,818	14,098	690,965	366,491
1891-92.....	126,421	67,021	32,508	28,434	17,061	7,358	16,783	16,558	480,225	345,830
1892.....	124,526	66,636	27,735	23,381	14,648	6,439	16,979	16,791	416,124	352,620
1893.....	100,402	44,558	17,935	11,176	18,343	8,068	11,915	13,718	342,114	328,136
1894.....	98,080	35,594	22,984	15,976	23,748	8,471	14,670	13,896	309,301	254,421
1895.....	99,234	41,679	16,340	9,540	13,591	8,199	20,018	21,319	436,793	296,523
1896.....	76,784	19,728	25,819	19,189	18,668	12,148	18,883	18,553	444,309	200,507
1897.....	110,545	58,848	18,260	15,394	7,833	4,575	22,131	21,923	483,069	254,399
1898.....	135,013	98,193	15,510	9,066	20,145	10,399	22,571	18,769	310,718	268,098

YEARS.	BEER.		MALT.		SALT.		SALT.		STARCH.	
	Receipts, bbls.	Shipm'ts, bbls.	Receipts, bush.	Shipm'ts, bush.	Receipts, bbls.	Shipm'ts, bbls.	Receipts, bags.	Shipm'ts, bags.	Receipts, boxes.	Shipm'ts, boxes.
1879-80.....	9,145	200,887	388,608	357,793	349,885	246,446	38,455	12,362	402,697	416,799
1880-81.....	10,943	226,885	548,149	506,948	406,503	230,201	47,863	68,740	177,258	380,455
1881-82.....	15,944	248,216	412,078	471,850	315,489	205,069	94,400	52,890	131,069	370,910
1882-83.....	17,536	286,665	340,200	297,791	320,617	182,698	55,928	43,996	147,835	407,696
1883-84.....	17,561	318,247	373,501	371,356	382,805	278,435	13,327	1,233	200,605	486,674
1884-85.....	19,788	317,053	669,774	441,545	393,982	238,756	13,540	1,797	127,905	408,447
1885-86.....	24,632	354,368	792,316	489,003	345,842	250,826	12,551	1,231	208,055	540,084
1886-87.....	25,200	418,056	744,940	381,210	327,044	244,885	32,510	25,050	281,549	574,253
1887-88.....	36,573	433,027	671,153	340,474	365,806	249,325	31,962	8,292	209,436	529,080
1888-89.....	51,857	390,328	720,090	556,925	297,198	177,407	13,362	3,840	221,500	630,956
1889-90.....	82,469	571,804	946,175	613,205	291,445	196,597	14,220	2,703	230,869	734,267
1890-91.....	69,500	613,159	762,939	669,909	415,556	327,669	12,245	2,688	173,761	704,903
1891-92.....	58,874	594,687	735,663	585,512	474,376	339,522	.....	.....	242,422	773,959
1892.....	55,220	582,828	790,221	584,149	477,671	346,595	.....	.....	238,812	755,193
1893.....	63,224	520,574	708,297	439,352	462,538	361,540	.....	.....	78,392	470,264
1894.....	47,900	456,756	547,888	469,869	449,845	338,270	.....	.....	147,562	594,733
1895.....	27,787	490,291	712,946	463,916	670,675	529,563	.....	.....	123,043	608,544
1896.....	20,507	493,966	674,682	509,355	587,119	441,873	.....	.....	216,325	707,902
1897.....	16,356	481,003	813,431	568,959	725,398	517,786	.....	.....	425,289	704,732
1898.....	15,501	461,226	739,103	717,234	525,017	424,404	.....	.....	645,263	1,126,125

RECEIPTS OF LUMBER.

Annual receipts of Lumber, representing cars, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently:

1883-84.....	25,300	1887-88.....	28,300	1891-92.....	39,500	1895.....	36,475
1884-85.....	26,100	1888-89.....	28,100	1892.....	40,919	1896.....	30,933
1885-86.....	23,200	1889-90.....	31,400	1893.....	35,314	1897.....	32,660
1886-87.....	26,800	1890-91.....	32,100	1894.....	29,947	1898.....	40,110

MOVEMENT OF BUTTER, CHEESE AND EGGS.

Receipts and shipments of Butter, Cheese and Eggs, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently:

YEARS.	BUTTER.				CHEESE.		EGGS.	
	Receipts, barrels.	Receipts, tubs, etc.	Shipm'ts, barrels.	Shipm'ts, tubs, etc.	Receipts, boxes.	Shipm'ts, boxes.	Receipts, packages.	Shipm'ts, packages.
1873-74.....	416	53,449	626	22,735	181,865	127,689	31,276	17,013
1874-75.....	812	65,910	898	25,708	173,144	118,287	33,863	10,153
1875-76.....	262	121,469	790	25,512	183,745	128,214	62,971	15,245
1876-77.....	837	110,927	1,116	37,425	143,417	102,886	81,426	19,557
1877-78.....	493	120,549	482	34,242	108,326	77,361	110,480	22,818
1878-79.....	471	125,685	1,153	41,960	104,664	62,876	106,786	16,770
1879-80.....	674	143,343	818	57,533	99,396	52,558	140,008	20,718
1880-81.....	1,073	129,987	802	37,244	85,022	43,380	134,906	13,048
1881-82.....	680	125,142	550	20,396	116,559	56,407	108,476	7,319
1882-83.....	1,033	115,671	218	12,859	105,845	47,822	152,354	37,808
1883-84.....	944	96,004	70	14,851	98,574	45,107	177,172	58,075
1884-85.....	856	87,812	100	16,944	97,852	48,520	147,458	44,506
1885-86.....	785	98,071	247	20,884	82,752	38,872	213,619	69,899
1886-87.....	746	80,693	156	6,623	91,197	40,090	245,235	99,323
1887-88.....	517	73,281	270	8,829	104,950	40,948	179,437	53,064
1888-89.....	643	73,976	729	8,693	95,824	45,609	258,573	131,783
1889-90.....	377	80,361	144	8,789	125,923	60,696	290,396	159,876
1890-91.....	.....	72,847	.....	17,338	120,474	64,255	262,212	157,626
1891-92.....	.....	68,672	.....	10,174	118,964	73,370	262,694	145,009
1892.....	.....	75,523	.....	9,922	128,627	81,823	272,661	154,110
1893.....	.....	81,143	.....	9,856	125,476	75,627	318,881	165,328
1894.....	.....	90,711	.....	15,085	118,289	67,681	321,011	161,237
1895.....	.....	122,383	.....	21,066	153,214	95,608	267,494	92,834
1896.....	.....	185,594	.....	23,992	144,451	95,048	361,265	176,448
1897.....	.....	127,147	.....	28,080	137,258	89,930	339,457	176,409
1898.....	.....	138,549	.....	27,320	102,568	56,830	306,428	139,275

MOVEMENT OF HIDES, LEATHER AND WOOL.

Receipts and shipments of Hides, Leather and Wool, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently:

YEARS.	HIDES.		LEATHER.		WOOL.	
	Receipts, pieces.	Shipm'ts, pieces.	Receipts, bundles.	Shipm'ts, bundles.	Receipts, bales.	Shipm'ts, bales.
1873-74.....	165,192	105,293	25,174	30,614	17,723	14,743
1874-75.....	181,525	130,961	24,742	34,942	14,668	14,260
1875-76.....	188,808	145,214	25,919	40,861	14,242	11,870
1876-77.....	175,327	177,841	28,188	38,401	19,531	22,352
1877-78.....	221,285	132,104	28,371	37,491	20,182	18,426
1878-79.....	221,995	169,853	30,344	39,965	29,771	30,251
1879-80.....	232,943	179,815	41,348	42,240	22,491	23,995
1880-81.....	323,006	205,665	45,751	42,164	26,007	23,985
1881-82.....	356,022	225,768	47,373	49,397	33,801	36,683
1882-83.....	339,124	219,206	43,516	51,914	27,170	25,998
1883-84.....	231,849	167,046	36,967	46,037	18,284	17,923
1884-85.....	282,290	191,956	35,121	42,174	23,042	27,005
1885-86.....	271,227	155,923	35,610	47,638	32,357	32,075
1886-87.....	370,465	200,087	37,513	50,606	26,212	24,404
1887-88.....	344,412	192,274	36,233	49,881	16,611	17,664
1888-89.....	372,091	178,085	39,542	56,905	31,560	30,666
1889-90.....	425,019	284,706	51,544	70,363	42,026	37,047
1890-91.....	496,560	305,349	61,041	79,162	39,087	37,973
1891-92.....	499,122	320,776	64,487	94,033	68,589	68,279
1892.....	552,514	402,905	69,611	94,364	79,167	79,011
1893.....	545,375	442,653	66,170	74,378	55,483	53,361
1894.....	437,040	351,533	73,984	73,331	52,315	51,628
1895.....	503,726	428,120	86,349	71,775	26,362	31,007
1896.....	412,174	344,668	97,245	86,450	22,741	25,145
1897.....	464,418	351,601	101,882	88,813	45,614	47,263
1898.....	508,964	441,269	152,326	118,445	16,884	20,447

PRICES OF BUTTER.

Quotations for choice Dairy Butter, and good to prime Creamery Butter, per pound, at Cincinnati, on Tuesday of each week, in three years :

DAIRY BUTTER.				CREAMERY BUTTER.			
DATES.	1896	1897	1896	DATES.	1896	1897	1896
January 4.....	11 @12	9 @10	10	January 4.....	18@20	15@16	16@18
11.....	11	9 @10	9	11.....	16@18	15@16	16@18
18.....	10	9	9	18.....	16@18	15@16	15
25.....	10	9	9	25.....	16@18	15@16	15
February 1.....	10	9	9	February 1.....	16@18	15@16	15
8.....	10	9 @10	9	8.....	16@18	16@17	15
15.....	10	9 @10	9	15.....	16@18	16@17	15
22.....	10 @11	9 @10	9	22.....	16@18	16@17	15@16
March 1.....	11 @12	8 @9	10	March 1.....	16@18	15	15@17
8.....	11 @12	8 @9	10	8.....	16@18	15	15@16
15.....	10 @12	8 @9	11	15.....	16@18	15	15@16
22.....	10 @12	8 @9	11	22.....	16@18	15	15@16
29.....	10 @12	10	11	29.....	16@18	15@20	15@16
April 5.....	10 @12	10	10	April 5.....	16@18	15@20	14@15
12.....	10 @12	10	10	12.....	16@18	15	14@15
19.....	10 @11	9	8	19.....	14@16	15@16	12@13
26.....	10 @11	8	8	26.....	14@16	13@15	12@13
May 3.....	10 @11	8	8	May 3.....	14@16	12@14	12@13
10.....	10 1/2	8	8	10.....	14@16	12@14	12@13
17.....	10 1/2	7	8	17.....	14@16	12@14	12@13
24.....	9 1/2	7	8	24.....	14@15	12@13	12@13
31.....	10	7	8	31.....	14@15	12@13	12@13
June 7.....	10	7	8	June 7.....	14@15	12@13	12@13
14.....	10	7	8	14.....	13@14	12@13	12@13
21.....	10	7	8	21.....	14@15	12@13	12@13
28.....	10	7 1/2	8	28.....	14@15	12@13	12@13
July 5.....	10	7 1/2 @ 8	8	July 5.....	14@15	12@13	12@14
12.....	10 1/2	7 @ 7 1/2	8	12.....	14@15	12@13	12@14
19.....	10 1/2 @11	7 @ 7 1/2	8	19.....	14@15	12@13	13@14
26.....	11	7 @ 7 1/2	8	26.....	15@16	12@13	12@14
August 2.....	11	7 @ 7 1/2	7 1/2 @ 8	August 2.....	16@17	12@13	12@14 1/2
9.....	11	7 @ 7 1/2	7 1/2 @ 8	9.....	16@17	12@13	12@14
16.....	11 1/2	9	7 1/2 @ 8	16.....	16@17	14@15	12@13
23.....	11	10	7 1/2 @ 8	23.....	16@17	16@18	12@15
30.....	11	10	7 1/2 @ 8	30.....	16@17	16@18	12@15
September 6.....	11	10	7	September 6.....	16@17	15@17	12@15
13.....	11	10	7	13.....	16@17	15@16	12@14
20.....	11 1/2	10	7	20.....	16@18	1 @ 16	12@14
27.....	11 1/2	11	7	27.....	16	16@18	13
October 4.....	12	12 @13	6 1/2	October 4.....	16@18	16@18	13@14
11.....	12	13 @14	8	11.....	16@18	20@22	15@16
18.....	12	13 @14	8	18.....	17@18	20@22	15@16
25.....	12 1/2	13 @14	8	25.....	18	20@22	15@16
November 1.....	12 1/2	13 @14	8	November 1.....	18@19	14@18	15@16
8.....	12 1/2	13 @14	9 @10	8.....	18@19	14@18	15@16
15.....	12 1/2	13 @14	9 @10	15.....	18@19	14@18	15@16
22.....	12 1/2	12 @13	9 @10	22.....	18@19	14@18	16@18
29.....	12 1/2	12 @13	9 @10	29.....	18@19	14@18	18@20
December 6.....	12 1/2	12 @13	9 @10	December 6.....	17@18	18@20	18@20
13.....	12 1/2	12 @13	9 @10	13.....	17@18	18@20	16@18
20.....	12	12 @13	9 @10	20.....	17@18	18@20	16@18
27.....	12	12 @13	9 @10	27.....	17@18	18@20	16@18

PRICES OF BUTTERINE.

Prices of Butterine, at Cincinnati, for the year 1898, ranged as follows:

January.....	11 1/2 @16	April.....	11 1/2 @16	July.....	11 1/2 @16	October.....	11 1/2 @16
February.....	11 1/2 @16	May.....	11 1/2 @16	August.....	11 1/2 @16	November.....	11 1/2 @16
March.....	11 1/2 @16	June.....	11 1/2 @16	September.....	11 1/2 @16	December.....	11 1/2 @16

PRICES OF CHEESE AND EGGS.

Quotations for Factory Cheese, per pound, and Eggs, per dozen, at Cincinnati, on Tuesday of each week, in three years:

CHEESE.				EGGS.			
DATES.	1898	1897	1896	DATES.	1898	1897	1896
January 4.....	9 @ 9½	9½ @ 10	9½ @ 10	January 4.....	16½	12½	17
11.....	9 @ 9½	9 @ 9½	9½ @ 10	11.....	16½	11½	15
18.....	9 @ 9½	9 @ 9½	9½ @ 10	18.....	17½	10½	14
25.....	9 @ 9½	9 @ 9½	9½ @ 10	25.....	15	12	14
February 1.....	9 @ 9½	9 @ 9½	9½ @ 10	February 1.....	14	13	14
8.....	9 @ 9½	9½ @ 10	9½ @ 10	8.....	12½	12	14
15.....	9 @ 9½	10 @ 10½	9½ @ 10	15.....	12	13½	10½
22.....	9 @ 9½	10 @ 10½	9½ @ 10	22.....	12½	13½	10
March 1.....	9 @ 9½	10 @ 10½	9½ @ 10	March 1.....	10½	9	9½
8.....	9 @ 9½	10 @ 10½	9½ @ 10	8.....	9	8	10
15.....	9 @ 9½	10½	9½ @ 10	15.....	9	8	8½
22.....	8½ @ 9	10½	9½ @ 10	22.....	9	7½	8½ @ 9
29.....	8½ @ 9	10½ @ 11	9½ @ 10	29.....	8	7½	8½ @ 9
April 5.....	8½ @ 9	10½ @ 11	9½ @ 10	April 5.....	8	7	9
12.....	8½ @ 9	10½ @ 11	9½ @ 10	12.....	8	8	9½
19.....	8½ @ 9	10½ @ 11	9½ @ 10	19.....	9	7½	9½
26.....	8½ @ 9	10½ @ 11	9½ @ 10	26.....	9	7½	8½ @ 9
May 3.....	8½ @ 9	10½ @ 11	9 @ 10	May 3.....	9	7½	8½ @ 9
10.....	8½ @ 9	10½ @ 11	9 @ 10	10.....	9	7½	7
17.....	8 @ 9	10½ @ 11	9 @ 10	17.....	9	7½	7
24.....	8 @ 9	10½ @ 11	9 @ 10	24.....	9	8	8½ @ 9
31.....	7 @ 8	8½ @ 9	7 @ 8	31.....	9	8	8½ @ 9
June 7.....	7 @ 7½	7½ @ 8	7 @ 8	June 7.....	9	8	8
14.....	7 @ 7½	7½ @ 8	7 @ 8	14.....	9	8	8
21.....	7 @ 7½	7 @ 7½	7 @ 8	21.....	9	8	8
28.....	7 @ 7½	7 @ 8	7 @ 8	28.....	9	8	7½
July 5.....	7 @ 7½	7 @ 8	7 @ 8	July 5.....	9	7	7
12.....	7½ @ 8	7 @ 8	7 @ 8	12.....	9	7	7
19.....	7½ @ 8	7 @ 8	7 @ 7½	19.....	9	7	7
26.....	7½ @ 8	7 @ 8	7 @ 7½	26.....	9	7	7½
August 2.....	8 @ 9	7 @ 8	7 @ 7½	August 2.....	9	7	7½
9.....	8 @ 9	7 @ 8	7 @ 7½	9.....	9	7	7½
16.....	7½ @ 8½	7½ @ 8½	7 @ 7½	16.....	10½	9	7½
23.....	7½ @ 8½	8½ @ 9½	7 @ 7½	23.....	10½	12	10½
30.....	7½ @ 8½	8½ @ 9½	7 @ 7½	30.....	12	12	10½
September 6.....	7½ @ 8½	8½ @ 9½	7 @ 7½	September 6.....	12	11	11
13.....	7½ @ 8½	8½ @ 9½	8 @ 8½	13.....	13	10½	11
20.....	7½ @ 8½	8½ @ 9½	8 @ 8½	20.....	13	12	11
27.....	8½ @ 9	8½ @ 9½	8 @ 8½	27.....	13	13	11
October 4.....	8½ @ 9	8½ @ 9½	8 @ 8½	October 4.....	13	13	12
11.....	8½ @ 9	8½ @ 9½	8 @ 8½	11.....	13	13	12½
18.....	8½ @ 9	8½ @ 9½	8 @ 8½	18.....	13	13	14
25.....	9 @ 9½	8½ @ 9½	8 @ 8½	25.....	14	14	14½
November 1.....	9 @ 9½	8½ @ 9½	9½ @ 10	November 1.....	14	15	14½
8.....	9 @ 9½	9 @ 9½	9½ @ 10	8.....	17	16	16
15.....	9 @ 9½	9 @ 9½	9½ @ 10	15.....	18	16½	16½
22.....	9 @ 9½	9 @ 9½	9½ @ 10	22.....	17½	16½	16½
29.....	9 @ 9½	9 @ 9½	9½ @ 10	29.....	19	16½	16½
December 6.....	10 @ 10½	9 @ 9½	9½ @ 10	December 6.....	19	17	16
13.....	10 @ 10½	9 @ 9½	9½ @ 10	13.....	19	17	14
20.....	10 @ 10½	9 @ 9½	9½ @ 10	20.....	20	16½	14½
27.....	10½ @ 11	9 @ 9½	9½ @ 10	27.....	20	17	13½

PRICES OF BROOM CORN.

Prices of Broom Corn from store, at Cincinnati, the last of December, 1894 to 1898, inclusive, and last of August in previous years:

KINDS.	1898	1897	1896	1895	1894	1893	1892
Green, Hurl.....	4½ @ 5	4 @ 4½	4 @ 4½	3¾ @ 4	7 @ 7½	5¼ @ 5¾	7 @ 7½
Green, Medium.....	4 @ 4¼	3¾ @ 3¾	3¼ @ 3¾	3 @ 3¼	5½ @ 6	4 @ 4½	6 @ 6½
Red, Pale or Mixed.....	3¾ @ 4¼	2½ @ 3¾	2½ @ 3¾	2¼ @ 3¾	4¾ @ 5¾	3 @ 3¾	5 @ 6
Crooked.....	½ price.	.....	.....	1¾ @ 2	3 @ 3¾	2	3½ @ 4

PRICES OF CLOVER AND TIMOTHY SEED.

Quotations for Clover Seed, per 100 pounds, and Timothy Seed, per 100 pounds, on arrival, at Cincinnati, previous to July, 1896, and per bushel subsequently, on Tuesday of each week, in years indicated:

CLOVER SEED.				TIMOTHY SEED.			
DATES.	1898	1897	1896	DATES.	1898	1897	1896
January 4..	\$2 75@3 00	\$3 50@4 25	\$6 50@7 00	January 4..	\$1 15@1 25	\$1 15@1 25	\$3 40@3 60
11..	2 75@3 00	3 50@4 25	6 50@7 00	11..	1 15@1 25	1 15@1 25	3 40@3 60
18..	2 75@3 00	3 75@4 50	6 50@7 00	18..	1 15@1 25	1 15@1 25	3 40@3 60
25..	2 75@3 00	3 75@4 50	6 50@7 00	25..	1 15@1 25	1 15@1 25	3 40@3 60
February 1..	2 75@3 00	3 75@4 50	6 50@7 00	February 1..	1 15@1 25	1 15@1 25	3 40@3 60
8..	2 75@3 00	3 75@4 50	6 50@7 00	8..	1 15@1 25	1 15@1 25	3 50@3 75
15..	2 75@3 00	3 75@4 50	6 50@7 00	15..	1 15@1 25	1 15@1 25	3 50@3 75
22..	2 75@3 00	3 75@4 50	6 50@7 00	22..	1 15@1 25	1 15@1 25	3 50@3 75
March 1..	2 65@2 90	3 50@4 00	6 50@7 00	March 1..	1 15@1 25	1 15@1 25	3 50@3 75
8..	2 65@2 90	3 50@4 00	6 50@7 00	8..	1 15@1 25	1 15@1 25	3 50@3 75
15..	2 60@2 80	3 75@4 25	6 50@7 00	15..	1 15@1 25	1 15@1 25	3 25@3 50
22..	2 45@2 65	4 00@4 50	6 50@7 00	22..	1 15@1 25	1 15@1 25	3 15@3 40
29..	2 45@2 65	4 00@4 50	6 50@7 00	29..	1 15@1 25	1 15@1 25	3 15@3 40
April 5..	2 45@2 65	4 00@4 50	6 50@7 00	April 5..	1 15@1 25	1 15@1 25	3 15@3 40
12..	2 45@2 65	3 50@4 00	6 50@7 25	12..	1 15@1 25	1 15@1 25	3 15@3 40
19..	2 45@2 65	3 50@4 00	6 50@7 25	19..	1 15@1 25	1 15@1 25	3 15@3 40
26..	2 45@2 65	3 50@4 00	6 50@7 25	26..	1 15@1 25	1 15@1 25	3 15@3 40
May 3..	2 45@2 65	3 00@3 50	6 50@7 25	May 3..	1 15@1 25	1 15@1 25	3 15@3 40
10..	2 45@2 65	3 00@3 50	6 25@7 00	10..	1 15@1 25	1 15@1 25	3 15@3 40
17..	2 45@2 65	3 00@3 50	6 25@7 00	17..	1 15@1 25	1 15@1 25	3 15@3 40
24..	.....	.....	6 25@7 00	24..	.....	.....	3 15@3 40
June 31..	.....	.....	6 25@7 00	June 31..	.....	.....	3 15@3 40
July 7..	.....	.....	6 25@7 00	July 7..	.....	.....	3 15@3 40
14..	.....	.....	.....	14..	.....	.....	.....
21..	.....	.....	.....	21..	.....	.....	.....
28..	.....	.....	.....	28..	.....	.....	.....
July 5..	.....	.....	.....	July 5..	.....	.....	.....
12..	.....	.....	.....	12..	.....	.....	1 55@1 75
19..	.....	.....	.....	19..	.....	.....	1 55@1 75
26..	.....	.....	.....	26..	.....	.....	1 60@1 80
August 2..	.....	.....	.....	August 2..	1 10@1 17	.....	1 60@1 80
9..	.....	.....	.....	9..	1 10@1 17	.....	1 55@1 75
16..	.....	.....	.....	16..	1 10@1 17	1 20@1 25	1 50@1 65
23..	.....	.....	.....	23..	1 10@1 17	1 20@1 25	1 50@1 65
30..	.....	.....	.....	30..	1 08@1 17	1 20@1 25	1 40@1 50
September 6..	.....	3 20@3 60	.....	September 6..	1 08@1 17	1 15@1 25	1 40@1 55
13..	.....	3 30@3 60	.....	13..	1 00@1 15	1 15@1 25	1 35@1 50
20..	.....	3 15@3 40	2 75@3 25	20..	95@1 10	1 15@1 25	1 35@1 50
27..	3 25@3 50	3 00@3 15	3 00@3 60	27..	95@1 10	1 15@1 25	1 35@1 50
October 4..	3 25@3 50	3 00@3 15	3 00@3 75	October 4..	95@1 10	1 15@1 25	1 30@1 40
11..	3 25@3 50	3 00@3 15	3 50@4 00	11..	95@1 10	1 15@1 25	1 30@1 40
18..	3 25@3 50	3 00@3 15	3 50@4 00	18..	95@1 10	1 15@1 25	1 30@1 40
25..	3 25@2 75	2 75@3 00	3 25@4 25	25..	95@1 10	1 15@1 25	1 15@1 25
November 1..	3 25@3 75	2 85@3 15	3 25@4 25	November 1..	95@1 00	1 15@1 25	1 15@1 25
8..	3 25@3 75	2 85@3 15	3 00@4 50	8..	95@1 00	1 15@1 25	1 15@1 25
15..	3 25@3 75	2 85@3 15	3 00@4 50	15..	95@1 00	1 15@1 25	1 15@1 25
22..	3 25@3 75	2 75@3 00	3 00@4 50	22..	95@1 00	1 15@1 25	1 15@1 25
29..	3 25@3 75	2 75@3 00	3 00@4 50	29..	95@1 00	1 15@1 25	1 15@1 25
December 6..	3 25@3 75	2 75@3 00	3 00@4 50	December 6..	95@1 00	1 15@1 25	1 15@1 25
13..	3 25@3 75	2 75@3 00	3 00@4 50	13..	95@1 00	1 15@1 25	1 15@1 25
20..	3 25@3 75	2 75@3 00	3 00@4 50	20..	95@1 00	1 15@1 25	1 15@1 25
27..	3 25@3 75	2 75@3 00	3 00@4 50	27..	95@1 00	1 15@1 25	1 15@1 25

* Per bushel from this date.

PRICES OF FLAXSEED.

Monthly range in prices of Flaxseed, per bushel, during the year 1898:

January	85@90	April	85@90	July	85@90	October	80
February	85@90	May	85@90	August	80@85	November	80@90
March	85@90	June	85@90	September	80	December	90

PRICES OF HAY AND DOMESTIC SALT.

Prices of No. 1 Timothy Hay, loose pressed, per ton, on arrival, and of Ohio River and Kanawha Salt, per barrel of 280 pounds, at Cincinnati, on Tuesday of each week, in three years:

HAY.				SALT.			
DATES.	1898	1897	1896	DATES.	1898	1897	1896
January 4..	\$8 50@ 9 00	\$10 00@10 50	\$14 00@14 50	January 4..	77 1/2 @82 1/2	65 @70	80@85
11..	8 50@ 9 00	10 50@11 00	14 00@14 75	11..	77 1/2 @82 1/2	65 @70	80@85
18..	9 00	10 50	14 00@14 75	18..	77 1/2 @82 1/2	65 @70	80@85
25..	8 75@ 9 00	10 00@10 50	14 00@14 75	25..	77 1/2 @82 1/2	65 @70	80@85
February 1..	8 75@ 9 00	10 00@10 50	14 00@14 75	February 1..	77 1/2 @82 1/2	65 @70	80@85
8..	8 00@ 8 75	10 00@10 50	14 00@14 50	8..	77 1/2 @82 1/2	65 @70	80@85
15..	8 00@ 8 75	10 00@10 50	14 00@14 50	15..	77 1/2 @82 1/2	65 @70	80@85
22..	8 00@ 8 75	10 00@10 50	14 00@14 50	22..	77 1/2 @82 1/2	65 @70	80@85
March 1..	8 00@ 8 75	10 00@10 50	13 50@14 25	March 1..	77 1/2 @82 1/2	65 @70	80@85
8..	8 00@ 8 75	10 50@10 75	13 50@13 75	8..	77 1/2 @82 1/2	65 @70	80@85
15..	8 00@ 8 75	10 50@11 00	13 50@13 75	15..	77 1/2 @82 1/2	70 @80	75@80
22..	8 50@ 9 00	11 00@11 50	13 50@14 00	22..	77 1/2 @82 1/2	70 @80	75@80
29..	8 50@ 9 00	10 75@11 00	13 50@14 00	29..	77 1/2 @82 1/2	70 @80	75@80
April 5..	8 50@ 9 00	10 75@11 00	14 00@14 50	April 5..	77 1/2 @82 1/2	70 @80	75@80
12..	8 50@ 9 00	10 50@11 00	14 50@15 00	12..	77 1/2 @82 1/2	70 @80	75@80
19..	9 00@ 9 50	10 50@11 00	15 00	19..	77 1/2 @82 1/2	70 @80	75@80
26..	9 50@10 00	11 00@11 50	14 50@15 00	26..	77 1/2 @82 1/2	70 @80	75@80
May 3..	9 50@10 25	11 00@11 50	14 00@14 50	May 3..	75 @80	70 @80	75@80
10..	10 50@11 00	11 00@11 50	14 00@14 50	10..	75	70 @80	75@80
17..	10 75@11 00	11 00@11 50	14 00@14 50	17..	75	70 @80	75@80
24..	9 50@10 00	11 00@11 50	14 00@14 50	24..	75	70 @80	75@80
31..	9 00@ 9 50	10 75@11 00	13 00@14 00	31..	75	70 @80	75@80
June 7..	9 00	10 00@10 50	13 00@13 50	June 7..	75	70 @80	75@80
14..	9 00	10 00@10 50	12 00	14..	75	70 @80	75@80
21..	8 50@ 9 00	10 00	12 50@13 00	21..	75	70 @80	75@80
28..	8 25@ 8 75	9 50@10 00	13 00@13 50	28..	75	70 @80	75@80
July 5..	8 25@ 8 75	9 50@10 00	12 50	July 5..	75	70 @80	75@80
12..	8 25@ 8 75	9 50@10 00	11 50@12 50	12..	75	70 @80	75@80
19..	8 50@ 9 00	10 50@11 00	11 50@12 00	19..	75	65 @75	75@80
26..	8 50@ 9 00	10 50@11 00	12 00@12 50	26..	75	65 @75	75@80
August 2..	8 50@ 9 00	10 50@11 00	13 00@13 50	August 2..	75	65 @75	75@80
9..	8 00@ 8 25	8 00@ 8 50	10 00@10 50	9..	75	65 @75	75@80
16..	8 00@ 8 50	9 00@ 9 50	10 00@10 50	16..	75	65 @75	75@80
23..	7 75@ 8 00	8 75@ 9 25	9 50@10 00	23..	75	65 @75	75@80
30..	7 50@ 7 75	8 50	9 00@ 9 50	30..	75	75	65@70
September 6..	7 50@ 7 75	8 00@ 8 25	9 00@ 9 50	September 6..	75	75	65@70
13..	7 50@ 7 75	8 50@ 8 75	9 25@ 9 75	13..	75	75	65@70
20..	7 50@ 7 75	8 00@ 8 25	10 00@10 50	20..	75	75 @80	65@70
27..	7 50@ 8 00	8 50@ 8 75	10 00@10 50	27..	75	75 @80	65@70
October 4..	7 75@ 8 00	8 75@ 9 25	10 00@10 50	October 4..	75	80	65@70
11..	8 00	8 50@ 9 00	10 00@10 50	11..	75	80 @85	65@70
18..	8 00@ 8 25	8 50@ 9 00	9 50@10 00	18..	75	80 @85	65@70
25..	8 00@ 8 25	8 00@ 8 50	9 50@ 9 75	25..	75	80 @85	65@70
November 1..	8 00	8 00@ 8 50	9 00@ 9 75	November 1..	75	80 @85	65@70
8..	8 00	8 25@ 8 75	10 00@10 50	8..	75	80 @85	65@70
15..	8 00	8 25@ 8 75	10 00@10 75	15..	75	80 @85	65@70
22..	8 00	8 50@ 9 00	10 00@10 50	22..	75	80 @85	65@70
29..	8 00	8 50@ 9 00	10 00@10 50	29..	75	80 @85	65@70
December 6..	8 00@ 8 25	8 50@ 9 00	10 25@10 75	December 6..	75	77 1/2 @82 1/2	65@70
13..	8 00@ 8 25	8 50@ 9 00	10 00@10 50	13..	75	77 1/2 @82 1/2	65@70
20..	8 00@ 8 25	8 50@ 9 00	9 25@ 9 75	20..	75	77 1/2 @82 1/2	65@70
27..	8 00@ 8 25	8 50@ 9 00	9 00@ 9 75	27..	75	77 1/2 @82 1/2	65@70

* New.

PRICES OF HAY BY GRADES.

Prices of Hay, at Cincinnati, at the close of December, as indicated:

KINDS.	1898	1897	1896	1895	1894	1893
No. 1 Timothy, on arrival.....	\$8 00@8 25	\$8 50@9 00	\$9 00@9 75	\$13 50@14 25	\$10 00@10 50	\$11 50@12 00
No. 2 Timothy, on arrival.....	7 00@7 50	7 00@7 50	7 00@8 00	11 75@12 50	8 50@ 9 50	9 00@10 00
Mixed, on arrival.....	5 00@7 50	4 25@7 25	7 00@8 50	9 00@11 75	7 00@ 8 00	8 00@ 9 00

PRICES OF OILS AND TALLOW.

Quotations for Lard Oil, Linseed Oil, Petroleum (Carbon Oil, 120° flash test), per gallon, and Tallow, per pound, at Cincinnati, on Tuesday of each week, in two years, as indicated:

DATES.	LARD OIL.		LINSEED OIL.		CARBON OIL.		TALLOW.	
	1898	1897	1898	1897	1898	1897	1898	1897
January 4....	40@43	39@42	39	29@31	6½@7	6½@7	37½@4	3½@3½
11....	40@43	39@42	39	29@31	6½@7	6½@7	4	3½
18....	40@43	39@42	39	28@30	6½@7	6½@7	4	3½
25....	40@43	39@42	39	28@30	6½@7	6½@7	4	3½@3½
February 1....	40@43	39@42	42	28@30	6½@7	6½@7	37½@4	3½
8....	40@43	38@41	44	28@30	6½@7	6½@7	37½	3½@3½
15....	40@43	38@41	43	28@30	6½@7	6½@7	37½	3½
22....	40@43	38@41	43	28@30	6½@7	6½@7	37½	3½
March 1....	42@45	38@41	42	28@30	6½@7	6½@7	37½	3½
8....	42@45	38@41	42	28@30	6½@7	6½@7	37½@4	3½
15....	42@45	38@41	42	29@31	6½@7	6½@7	37½@4	3½@3½
22....	42@45	38@41	41	30@32	6½@7	6½@7	37½@4	3½
April 29....	41@44	38@41	40	30@32	6½@7	6½@7	37½@37½	3½
5....	41@44	38@41	40	31@33	6½@7	6½@7	37½@37½	3½
12....	41@44	38@41	40	31@33	6½@7	6½@7	37½	3½@3½
19....	41@44	38@41	39	31@33	6½@7	6½@7	37½	3½@3½
26....	41@44	38@41	39	31@33	6½@7	6½@7	37½	3½@3½
May 3....	47@50	38@41	43	31@33	6½@7	6½@7	37½	3½
10....	47@50	38@41	43	31@33	6½@7	6½@7	37½	3½
17....	52@55	38@41	45	31@33	6½@7	6½@7	4 @4¼	3½
24....	52@55	38@41	47	31@33	6½@7	6½@7	4 @4¼	3½
31....	50@52	38@41	47	31@33	6½@7	6½@7	4¼	3½
June 7....	50@52	33@34	47	28@30	6½@7	6½@7	4	3½
14....	50@52	33@34	47	28@30	6½@7	6½@7	37½@4	3½
21....	50@52	33@34	43	28@30	6½@7	6½@7	37½	3½@3½
28....	48	33@34	43	28@30	6½@7	6½@7	37½	3½@3½
July 5....	48	33@34	40	27@29	6½@7	6½@7	37½	3½@3½
12....	48	33@34	40	27@29	6½@7	6½@7	37½	3½@3½
19....	48	33@34	36	27@29	6½@7	6½@7	37½@37½	3½@3½
26....	48	33@34	36	27@29	6½@7	6½@7	37½@37½	3½@3½
August 2....	48	33@34	35	27@29	6½@7	6½@7	37½@37½	3½@3½
9....	48	33@34	35	28@30	6½@7	6½@7	37½@37½	3½@3½
16....	48	35@36	34	34@35	6½@7	6½@7	37½@37½	3½@3½
23....	48	35@36	34	39	6½@7	6½@7	37½@37½	3½@3½
30....	43	35@38	34	39	6½@7	6½@7	37½@4	3½@4
September 6....	43	35@38	34	37	6½@7	6½@7	37½	4 @4¼
13....	43	35@38	34	39	6½@7	6½@7	4 @4¼	4 @4¼
20....	43	35@38	34	35	6½@7	6½@7	37½@4	37½@4
27....	43	35@38	33	35	6½@7	6½@7	37½	37½
October 4....	43	35@38	33	33	6½@7	6½@7	37½@37½	37½@37½
11....	43	35@38	33	33	6½@7	6½@7	37½@4	37½@37½
18....	43	35@38	33	33	6½@7	6½@7	4	37½
25....	43	35@38	35	33	6½@7	6½@7	4	37½
November 1....	44@46	40@45	37	35	6½@7	6½@7	4	37½
8....	44@46	40@45	37	35	6½@7	6½@7	4	37½
15....	44@46	40@45	37	35	6½@7	6½@7	37½	37½
22....	44@46	40@45	37	35	6½@7	6½@7	37½	37½
29....	44@46	40@45	36	35	6½@7	6½@7	37½	37½
December 6....	44@46	40@45	36	35	6½@7	6½@7	37½@37½	37½
13....	44@46	40@45	36	36	6½@7	6½@7	37½@37½	37½
20....	44@46	40@43	38	38	6½@7	6½@7	37½@4	37½@37½
27....	44@46	40@43	39	38	6½@7	6½@7	37½@4	37½@37½

* Extra summer test, from June 28 to October 25, inclusive, in 1898, and from June 8 to October 26, inclusive, in 1897. Extra during the remainder of the period.

EXPORTS OF OIL.

Exports of Refined Petroleum from the United States, stated in gallons:

1886-87.....	513,491,000	1889-90.....	566,447,000	1892-93.....	691,989,000	1895-96.....	779,330,414
1887-88.....	491,143,000	1890-91.....	616,844,000	1893-94.....	786,115,000	1896-97.....	835,799,000
1888-89.....	541,564,000	1891-92.....	611,229,000	1894-95.....	773,079,000	1897-98.....	900,999,000

PRICES OF WOOL.

Prices of Wool, per pound, at Cincinnati, on Tuesday of each week, in two years, as indicated:

DATES.	TUB-WASHED.		UNWASHED MANUFACTURING.		OHIO FLEEC.		UNWASHED COMBING.	
	1896	1897	1896	1897	1896	1897	1896	1897
January 4.....	30@33	18@21	23@25	17@18	27@30	17@20	24@26	17@19
11.....	30@33	18@21	23@25	17@18	27@30	17@20	24@26	17@19
18.....	30@33	18@21	23@25	17@18	27@30	17@20	24@26	17@19
25.....	30@33	18@21	23@25	17@18	27@30	17@20	24@26	17@19
February 1.....	30@33	18@21	23@25	17@18	27@30	17@20	24@26	17@19
8.....	31@34	18@21	24@26	17@18	28@30	17@20	25@27	17@19
15.....	31@34	18@21	24@26	17@18	28@30	17@20	25@27	17@19
22.....	31@34	18@21	24@26	17@18	28@30	17@20	25@27	17@19
March 1.....	31@34	20@22	24@26	18@19	28@30	19@23	25@27	18@20
8.....	31@34	20@22	24@26	18@19	28@30	19@23	25@27	18@20
15.....	31@34	20@22	24@26	18@19	28@30	19@23	25@27	18@20
22.....	31@34	20@22	24@26	18@19	28@30	19@23	25@27	18@20
April 5.....	31@34	20@22	24@26	18@19	28@30	19@23	25@27	18@20
12.....	31@34	20@22	24@26	18@19	28@30	19@23	25@27	18@20
19.....	31@34	20@22	24@26	18@19	28@30	19@23	25@27	18@20
26.....	32@35	20@22	24@26	18@19	28@29	19@23	25@26	18@20
May 3.....	32@35	22@25	24@26	20@21	28@29	22@25	25@26	20@22
10.....	32@35	22@25	24@26	20@21	28@29	22@25	25@26	20@22
17.....	32@35	22@25	24@26	20@21	28@29	22@25	25@26	20@22
24.....	30@32	22@25	22@24	20@21	26@28	22@25	23@24	20@22
31.....	30@32	22@25	22@24	20@21	26@28	22@25	23@24	20@22
June 7.....	30@32	22@25	22@24	20@21	26@28	22@25	23@24	20@22
14.....	30@32	22@25	22@24	20@21	26@28	22@25	23@24	20@22
21.....	28@30	22@25	20@22	20@21	24@26	22@25	22@23	20@22
28.....	28@30	22@25	20@22	20@21	24@26	22@25	22@23	20@22
July 5.....	28@30	26@30	20@22	22@24	24@26	25@28	22@23	23@24
12.....	28@30	26@30	20@22	22@24	24@26	25@28	22@23	23@24
19.....	25@28	26@30	18@20	22@24	22@24	25@28	21@22	23@24
26.....	25@28	26@30	18@20	22@24	22@24	25@28	21@22	23@24
August 2.....	25@28	30@33	18@20	23@25	22@24	27@30	21@22	24@26
9.....	26@29	30@33	18@20	23@25	22@24	27@30	21@22	24@26
16.....	26@29	30@33	18@20	23@25	22@24	27@30	21@22	24@26
23.....	26@29	30@33	18@20	23@25	22@24	27@30	21@22	24@26
30.....	26@29	30@33	18@20	23@25	22@24	27@30	21@22	24@26
September 6.....	26@29	30@33	18@20	23@25	22@24	27@30	21@22	24@26
13.....	25@28	30@33	18@19	23@25	21@22	27@30	21@22	24@26
20.....	25@28	30@33	18@19	23@25	21@22	27@30	21@22	24@26
27.....	25@28	30@33	18@19	23@25	21@22	27@30	21@22	24@26
October 4.....	25@28	30@33	18@19	23@25	21@22	27@30	21@22	24@26
11.....	25@28	30@33	18@19	23@25	21@22	27@30	21@22	24@26
18.....	24@27	30@33	17@19	23@25	20@22	27@30	20@21	24@26
25.....	24@27	30@33	17@19	23@25	20@22	27@30	20@21	24@26
November 1.....	24@27	30@33	17@19	23@25	20@22	27@30	20@21	24@26
8.....	24@27	30@33	17@19	23@25	20@22	27@30	20@21	24@26
15.....	25@28	30@33	18@20	23@25	20@21	27@30	20@21	24@26
22.....	25@28	30@33	18@20	23@25	20@21	27@30	20@21	24@26
29.....	25@28	30@33	18@20	23@25	20@21	27@30	20@21	24@26
December 6.....	25@28	30@33	18@20	23@25	20@21	27@30	20@21	24@26
13.....	25@28	30@33	18@20	23@25	20@21	27@30	20@21	24@26
20.....	25@28	30@33	18@20	23@25	20@21	27@30	20@21	24@26
27.....	25@28	30@33	18@20	23@25	20@21	27@30	20@21	24@26

PRODUCTION OF WOOL.

Yearly production of Wool in the United States, in pounds, as indicated:

1881-82.....	272,000,000	1885-86.....	302,000,000	1889-90.....	276,000,000	1893-94.....	298,000,000
1882-83.....	290,000,000	1886-87.....	285,000,000	1890-91.....	285,000,000	1894-95.....	309,000,000
1883-84.....	300,000,000	1887-88.....	269,000,000	1891-92.....	294,000,000	1895-96.....	278,000,000
1884-85.....	308,000,000	1888-89.....	265,000,000	1892-93.....	303,000,000	1896-97.....	267,000,000

PRICES OF SUGAR AND MOLASSES.

Quotations for Prime New Orleans Sugar, and A White and Hards, per pound, and for Prime New Orleans Molasses, per gallon, at Cincinnati, on Tuesday of each week, in two years:

DATES.	SUGAR.						MOLASSES.	
	PRIME NEW ORLEANS.		A WHITE.		HARDS.		PRIME NEW ORLEANS.	
	1898	1897	1898	1897	1898	1897	1898	1897
January 4.....	35 1/2	35 1/2	5.35	4.21@4.34	5.47@6.10	4.59@5.22	30@32	28@30
11.....	35 1/2	35 1/2	5.35	4.15@4.28	5.47@6.10	4.59@5.22	30@32	28@30
18.....	35 1/2	35 1/2	5.35	4.15@4.28	5.47@5.97	4.47@5.09	30@32	25@30
25.....	35 1/2	35 1/2	5.22	4.10@4.22	5.35@5.85	4.47@5.10	30@32	22@28
February 1.....	35 1/2	35 1/2	5.22	4.10@4.22	5.35@5.85	4.47@5.10	30@32	22@28
8.....	35 1/2	35 1/2	5.35	4.10@4.22	5.47@5.97	4.47@5.10	30@32	22@28
15.....	35 1/2	35 1/2	5.35	4.22@4.35	5.47@5.97	4.60@5.22	30@32	20@26
22.....	37 1/2	37 1/2	5.35	4.22@4.35	5.47@5.97	4.60@5.22	30@32	20@26
March 1.....	37 1/2	37 1/2	5.35	4.10@4.22	5.47@5.97	4.47@5.10	30@32	20@26
8.....	37 1/2	37 1/2	5.35	4.10@4.22	5.47@5.97	4.47@5.10	31@33	20@26
15.....	37 1/2@4	37 1/2	5.22	4.2@4.35	5.35@5.85	4.60@5.22	31@33	20@26
22.....	37 1/2@4	37 1/2	5.22	4.10@4.47	5.35@5.85	4.72@5.35	31@33	20@26
29.....	37 1/2@4	37 1/2	5.22	4.47@4.60	5.35@5.85	4.85@5.47	31@33	20@26
April 5.....	37 1/2@4	37 1/2	5.28	4.66@4.72	5.41@5.91	4.97@5.60	31@33	20@26
12.....	37 1/2@4	37 1/2	5.28	4.41@4.60	5.41@5.91	4.85@5.47	31@33	20@26
19.....	37 1/2@4	37 1/2	5.28	4.35@4.47	5.41@5.91	4.72@5.35	31@33	20@26
26.....	37 1/2@4	37 1/2	5.47	4.35@4.47	5.60@6.10	4.72@5.35	31@33	20@26
May 3.....	37 1/2@4	37 1/2	5.53	4.35@4.47	5.60@6.10	4.72@5.35	31@33	22@26
10.....	37 1/2@4	37 1/2	5.47	4.47@4.58	5.60@6.10	4.78@5.41	31@33	22@26
17.....	37 1/2@4	37 1/2	5.47	4.35@4.47	5.60@6.10	4.72@5.35	31@33	22@26
24.....	37 1/2@4	37 1/2	5.47	4.35@4.47	5.60@6.10	4.72@5.35	31@33	22@26
31.....	37 1/2@4	37 1/2	5.47	4.35@4.47	5.60@6.10	4.72@5.35	31@33	22@26
June 7.....	37 1/2@4	37 1/2	5.47	4.53@4.67	5.60@6.10	4.85@5.47	31@33	22@26
14.....	37 1/2@4	37 1/2	5.47	4.66@4.72	5.60@6.10	4.97@5.60	31@33	22@26
21.....	37 1/2@4	.....	5.47	4.66@4.72	5.60@6.10	4.97@5.60	31@33	22@26
28.....	37 1/2@4	.....	5.47	4.66@4.72	5.60@6.10	4.97@5.60	31@33	22@26
July 5.....	37 1/2@4	.....	5.47	4.66@4.72	5.60@6.10	4.97@5.60	31@33	22@26
12.....	37 1/2@4	.....	5.47	4.78@4.85	5.60@6.10	5.10@5.72	31@33	22@26
19.....	37 1/2@4	.....	5.47	4.78@4.85	5.60@6.10	5.10@5.72	31@33	22@26
26.....	37 1/2@4	.....	5.47	4.85@4.97	5.60@6.10	5.22@5.85	31@33	22@26
August 2.....	.....	.....	5.47	4.85@4.97	5.60@6.10	5.22@5.85	31@33	22@26
9.....	.....	.....	5.47	4.85@4.97	5.60@6.10	5.22@5.85	31@33	22@26
16.....	.....	.....	5.47	4.85@4.97	5.60@6.10	5.22@5.85	31@33	22@26
23.....	.....	.....	5.47	4.85@4.97	5.60@6.10	5.22@5.85	31@33	22@26
30.....	.....	.....	5.53	4.91@4.97	5.66@6.10	5.22@5.85	31@33	22@26
September 6.....	.....	.....	5.53	5.03	5.66@6.10	5.28@5.91	31@33	25@29
13.....	.....	.....	5.60	4.97@5.08	5.72@6.16	5.28@5.91	31@33	25@29
20.....	.....	.....	5.60	5.03	5.72@6.16	5.28@5.91	31@33	25@29
27.....	.....	.....	5.60	5.03@5.10	5.72@6.16	5.35@5.97	31@33	25@29
October 4.....	.....	.....	5.35	5.03@5.10	5.47@5.72	5.35@5.97	31@33	25@29
11.....	.....	.....	5.10	5.03@5.10	5.22@5.72	5.35@5.97	31@33	25@29
18.....	.....	.....	5.10	5.03@5.10	5.22@5.72	5.35@5.97	31@33	25@29
25.....	.....	.....	5.10	4.91@4.97	5.22@5.72	5.22@5.85	31@33	24@27
November 1.....	.....	.....	5.10	4.78@4.85	5.22@5.72	5.22@5.85	31@33	30@32
8.....	.....	.....	5.10	4.78@4.85	5.22@5.72	5.22@5.85	31@33	30@32
15.....	.....	.....	5.22	4.85@4.91	5.35@5.85	5.22@5.85	31@33	30@32
22.....	.....	.....	5.41	4.85@4.91	5.53@6.08	5.22@5.85	31@33	30@32
29.....	.....	.....	5.33	4.85@4.91	5.47@5.97	5.22@5.85	31@33	30@32
December 6.....	.....	.....	5.33	4.85@4.91	5.47@5.97	5.22@5.85	31@33	30@32
13.....	.....	.....	5.33	4.85@4.91	5.47@5.97	5.28@5.91	31@33	30@32
20.....	.....	.....	5.22	4.85@4.97	5.35@5.85	5.35@5.97	31@33	30@32
27.....	.....	.....	5.10	4.85@5.10	5.22@5.72	5.47@6.10	31@33	30@32

PRICES OF COFFEE AND RICE.

Quotations for Fair Rio Coffee, and for Louisiana Rice, per pound, at Cincinnati, on Tuesday of each week, in three years:

FAIR RIO COFFEE.				LOUISIANA RICE.			
DATES.	1896	1897	1896	DATES.	1896	1897	1896
January 4.....	9 1/2	15 1/2	19	January 4.....	5 1/2 @ 6 1/2	3 1/2 @ 6 1/2	3 @ 5
11.....	9 1/2	15 1/2	18 1/2	11.....	5 1/2 @ 6 1/2	3 1/2 @ 6 1/2	2 1/2 @ 5 1/2
18.....	9 1/2	15 1/2	18 1/2	18.....	5 1/2 @ 6 1/2	3 1/2 @ 6 1/2	2 1/2 @ 5 1/2
25.....	9	15 1/2	18 1/2	25.....	5 1/2 @ 6 1/2	3 1/2 @ 6 1/2	2 1/2 @ 5 1/2
February 1.....	9	15 1/2	18 1/2	February 1.....	5 1/2 @ 6 1/2	3 1/2 @ 6 1/2	2 1/2 @ 5 1/2
8.....	9	15 1/2	18 1/2	8.....	5 1/2 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
15.....	9	15 1/2	18 1/2	15.....	5 1/2 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
22.....	9	15 1/2	18 1/2	22.....	5 1/2 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
March 1.....	8 1/2	15 1/2	18 1/2	March 1.....	5 1/2 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
8.....	8 1/2	15 1/2	18 1/2	8.....	5 1/2 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
15.....	8 1/2	15	18 1/2	15.....	5 1/2 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
22.....	8 1/2	14 1/2	19	22.....	5 1/2 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
April 29.....	8 1/2	14 1/2	18 1/2	April 29.....	5 1/2 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
5.....	9 1/2	14 1/2	18 1/2	5.....	5 1/2 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
12.....	9 1/2	13 1/2	18 1/2	12.....	6 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
19.....	9 1/2	14	18 1/2	19.....	6 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
26.....	9 1/2	14	18 1/2	26.....	6 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
May 3.....	9 1/2	14	19 1/2	May 3.....	6 1/2 @ 7	4 @ 6 1/2	2 1/2 @ 5 1/2
10.....	9 1/2	14	19 1/2	10.....	6 1/2 @ 7	4 @ 6 1/2	2 1/2 @ 5 1/2
17.....	9 1/2	14	20	17.....	6 1/2 @ 7	4 @ 6 1/2	2 1/2 @ 5 1/2
24.....	9 1/2	13 1/2	20	24.....	6 1/2 @ 7	4 @ 6 1/2	2 1/2 @ 5 1/2
31.....	9 1/2	13 1/2	18 1/2	31.....	6 1/2 @ 7	4 @ 6 1/2	2 1/2 @ 5 1/2
June 7.....	9 1/2	13 1/2	18 1/2	June 7.....	6 1/2 @ 7	4 @ 6 1/2	2 1/2 @ 5 1/2
14.....	9 1/2	13 1/2	18 1/2	14.....	6 1/2 @ 7	4 @ 6 1/2	2 1/2 @ 5 1/2
21.....	9 1/2	13 1/2	18	21.....	6 1/2 @ 7	4 @ 6 1/2	2 1/2 @ 5 1/2
28.....	9	13 1/2	18	28.....	6 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
July 5.....	9	13 1/2	18	July 5.....	6 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
12.....	9	13	18	12.....	6 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
19.....	9	13	18	19.....	6 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
26.....	8 1/2	13	17 1/2	26.....	6 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
August 2.....	8 1/2	13	17	August 2.....	6 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
9.....	8 1/2	13	16 1/2	9.....	6 @ 6 1/2	4 @ 6 1/2	2 1/2 @ 5 1/2
16.....	8 1/2	12 1/2	16 1/2	16.....	5 1/2 @ 6	4 @ 6 1/2	2 1/2 @ 5 1/2
23.....	8 1/2	12 1/2	16 1/2	23.....	5 1/2 @ 6	4 @ 6 1/2	2 1/2 @ 5 1/2
30.....	8 1/2	12 1/2	17	30.....	5 1/2 @ 6	4 @ 6 1/2	2 1/2 @ 5 1/2
September 6.....	8 1/2	12 1/2	17	September 6.....	5 1/2 @ 6	4 @ 6 1/2	2 1/2 @ 5 1/2
13.....	8 1/2	12 1/2	16 1/2	13.....	5 1/2 @ 6	4 @ 6 1/2	2 1/2 @ 5 1/2
20.....	8 1/2	12 1/2	16 1/2	20.....	5 1/2 @ 6	4 @ 6 1/2	3 @ 5 1/2
27.....	8 1/2	12	16 1/2	27.....	5 1/2 @ 6	4 @ 6 1/2	3 @ 5 1/2
October 4.....	8 1/2	12	16 1/2	October 4.....	5 1/2 @ 6	4 @ 6 1/2	3 @ 5 1/2
11.....	8 1/2	12	16 1/2	11.....	5 1/2 @ 6	4 @ 6 1/2	3 @ 5 1/2
18.....	8 1/2	11 1/2	16 1/2	18.....	5 1/2 @ 6	4 @ 6 1/2	3 @ 5 1/2
25.....	8 1/2	11	16 1/2	25.....	5 1/2 @ 6	4 @ 6 1/2	3 @ 5 1/2
November 1.....	8 1/2	10 1/2	16 1/2	November 1.....	5 1/2 @ 6	4 @ 6 1/2	3 @ 5 1/2
8.....	8 1/2	10 1/2	16	8.....	5 1/2 @ 6	4 @ 6 1/2	3 @ 5 1/2
15.....	8 1/2	10	16	15.....	5 1/2 @ 6	4 @ 6 1/2	3 1/2 @ 6 1/2
22.....	8 1/2	9 1/2	15 1/2	22.....	5 1/2 @ 6	4 @ 6 1/2	3 1/2 @ 6 1/2
29.....	8 1/2	9 1/2	15 1/2	29.....	5 1/2 @ 6	4 @ 6 1/2	3 1/2 @ 6 1/2
December 6.....	8 1/2	9 1/2	15 1/2	December 6.....	5 1/2 @ 6	4 @ 6 1/2	3 1/2 @ 6 1/2
13.....	9 1/2	9 1/2	16	13.....	5 1/2 @ 6	4 @ 6 1/2	3 1/2 @ 6 1/2
20.....	9 1/2	9 1/2	15 1/2	20.....	5 1/2 @ 6	4 1/2 @ 6 1/2	3 1/2 @ 6 1/2
27.....	9 1/2	9 1/2	15 1/2	27.....	5 1/2 @ 6	4 1/2 @ 6 1/2	3 1/2 @ 6 1/2

UNITED STATES IMPORTS.

United States Imports of Sugar, Coffee, Rice and Tea, representing pounds:

ARTICLES.	1897-98	1896-97	1895-96	1894-95	1893-94
Sugar.....	2,688,830,000	4,918,905,000	3,716,338,000	3,574,435,000	4,345,194,000
Coffee.....	870,514,000	737,645,000	580,598,000	652,209,000	550,984,000
Rice.....	190,238,000	197,816,000	146,724,000	219,564,000	142,162,000
Tea.....	70,957,000	113,843,000	93,998,000	97,253,000	93,519,000

PRICES OF COFFEE.

Prices of the various kinds of Coffee, per pound, at Cincinnati, at the close of December, as indicated:

GRADES.	1898	1897	1896	1895	1894	1893
Rio, prime	9 $\frac{1}{2}$	10 $\frac{1}{2}$	16 $\frac{1}{2}$	20	20 $\frac{1}{2}$	20 $\frac{1}{2}$
Rio, good	9 $\frac{1}{2}$	10 $\frac{1}{2}$	16 $\frac{1}{2}$	19 $\frac{1}{2}$	20	20
Rio, fair	9	9 $\frac{1}{2}$	15 $\frac{1}{2}$	19	19 $\frac{1}{2}$	19 $\frac{1}{2}$
Rio, low fair	8 $\frac{1}{2}$	9 $\frac{1}{2}$	14 $\frac{1}{2}$	18 $\frac{1}{2}$	19 $\frac{1}{2}$	19
Rio, good ordinary	8 $\frac{1}{2}$	8 $\frac{1}{2}$	13 $\frac{1}{2}$	17 $\frac{1}{2}$	18 $\frac{1}{2}$	18 $\frac{1}{2}$
Rio, ordinary	7 $\frac{1}{2}$	8 $\frac{1}{2}$	12 $\frac{1}{2}$	17	18 $\frac{1}{2}$	18 $\frac{1}{2}$
Rio, low ordinary	7 $\frac{1}{2}$	7 $\frac{1}{2}$	11 $\frac{1}{2}$	16	17	17 $\frac{1}{2}$
Rio, strict good common	7 $\frac{1}{2}$	7 $\frac{1}{2}$	11 $\frac{1}{2}$	15 $\frac{1}{2}$	16	17 $\frac{1}{2}$
Rio, good common	7 $\frac{1}{2}$	7 $\frac{1}{2}$	10 $\frac{1}{2}$	15	15	16 $\frac{1}{2}$
Rio, common	6 $\frac{1}{2}$	7 $\frac{1}{2}$	10 $\frac{1}{2}$	14 $\frac{1}{2}$	14 $\frac{1}{2}$	16 $\frac{1}{2}$
Java, Government	20 @32	21 $\frac{1}{2}$ @30	23 @29	23 $\frac{1}{2}$ @29 $\frac{1}{2}$	25 @29 $\frac{1}{2}$	25 @29
Mocha	19 @22	21 @23	23 @24 $\frac{1}{2}$	26 $\frac{1}{2}$ @27 $\frac{1}{2}$	27 @25	24 @25

PRICES OF SUGAR AND MOLASSES.

Prices of the various kinds of Sugar, per pound, at Cincinnati, at the close of December, as indicated:

KINDS.	1898	1897	1896	KINDS.	1898	1897	1896
New Orleans, choice	4 $\frac{1}{2}$ @4 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	Refined, cubes	5.35	5.66	4.84
" " prime	4 $\frac{1}{2}$ @4 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	" powdered ..	5.35	5.66	4.84
" " fully fair	4 $\frac{1}{2}$ @4 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	" granulated ..	5.22	5.47	4.59
" " good fair	4 $\frac{1}{2}$ @4 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	" "A White" ..	5.10	4.85@5.10	4.09@4.22
" " fair	4 $\frac{1}{2}$ @4 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	" extra "C" ..	4.60@4.66	4.72@4.78	3.89@4.03
" " common	4 $\frac{1}{2}$ @4 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	" yellow	4.41@4.53	4.16@4.66	3.66@3.79
" " clarified, white ..	4 $\frac{1}{2}$ @4 $\frac{1}{2}$	4 @4 $\frac{1}{2}$	4 @4 $\frac{1}{2}$				

* None in the market.

Prices of the various kinds of Molasses and Syrups, per gallon, at Cincinnati, at the close of December, as indicated:

KINDS.	1898	1897	1896	KINDS.	1898	1897	1896
New Orleans, choice	37@40	33@35	32@34	New Orleans, fair	22@24	20@22	20@24
" " prime	33@36	30@32	30@32	" " common ..	15@18	15@18	12@20
" " good	28@31	26@29	25@30	Sorghum, prime to choice	17@18	18@22	20@22

EXPORTS OF SUGAR.

Exports of Refined Sugar from the United States, representing pounds, for fiscal years ending June 30, as indicated:

1886-87	190,672,000	1890-91	108,228,000	1894-95	8,833,000
1887-88	34,565,000	1891-92	14,604,000	1895-96	9,106,000
1888-89	14,167,000	1892-93	20,387,000	1896-97	7,197,000
1889-90	27,018,000	1893-94	14,778,000	1897-98	6,047,000

MOVEMENT OF GROCERIES.

Receipts and shipments of Sugar, Molasses, Coffee and Rice, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently:

YEARS.	SUGAR.				MOLASSES.		COFFEE.		RICE.	
	Receipts, hhds.	Shipm'ts, hhds.	Receipts, bbls.	Shipm'ts, bbls.	Receipts, bbls.	Shipm'ts, bbls.	Receipts, bags.	Shipm'ts, bags.	Receipts, bbls.	Shipm'ts, bbls.
1875-76.....	17,468	11,000	152,880	106,902	46,199	26,860	192,496	117,590	36,348	.....
1876-77.....	22,323	17,818	162,475	109,106	44,077	27,477	188,844	158,590	35,122	.....
1877-78.....	9,138	6,339	206,892	132,965	51,572	34,234	211,026	175,966	21,562	.....
1878-79.....	28,751	21,330	142,586	94,015	42,337	35,800	222,399	177,575	20,402	.....
1879-80.....	9,451	5,109	190,428	128,531	52,327	37,581	250,454	196,283	18,872	.....
1880-81.....	11,900	4,785	191,928	115,143	68,964	42,606	201,707	140,607	27,428	.....
1881-82.....	6,750	4,180	192,201	92,480	63,776	48,920	181,260	106,430	22,070	16,897
1882-83.....	22,267	18,281	177,822	91,428	63,193	45,159	227,697	142,197	24,978	19,026
1883-84.....	7,041	3,494	223,340	130,395	48,471	37,684	225,626	155,991	27,368	17,729
1884-85.....	5,848	4,316	247,419	161,888	44,492	37,052	269,599	194,722	39,007	24,718
1885-86.....	3,110	1,194	236,671	185,274	50,131	37,086	247,738	178,016	39,941	23,120
1886-87.....	1,490	689	212,910	107,660	32,568	27,542	274,747	189,219	51,773	37,062
1887-88.....	4,925	3,301	248,545	121,101	57,103	43,509	243,642	165,466	37,775	30,329
1888-89.....	2,360	1,452	225,016	108,036	48,038	45,865	251,132	145,128	34,831	23,700
1889-90.....	1,457	526	304,309	167,901	51,825	47,536	271,817	171,463	45,496	32,454
1890-91.....	2,015	1,294	361,050	210,626	68,774	56,077	229,441	156,194	47,777	29,692
1891-92.....	1,472	830	281,682	144,417	39,081	38,236	277,597	168,254	53,525	36,245
1892.....	1,567	775	282,106	150,023	39,906	42,376	285,600	183,394	58,287	37,118
1893.....	1,846	1,365	248,821	115,107	46,016	49,778	249,859	175,260	57,805	33,637
1894.....	1,921	1,133	284,410	186,248	53,571	44,121	215,903	160,067	35,104	21,529
1895.....	2,166	1,146	267,500	143,343	47,337	35,671	242,550	176,530	46,280	21,281
1896.....	1,829	1,114	250,140	124,554	40,028	26,052	278,874	217,839	32,820	18,003
1897.....	1,441	785	276,946	118,060	40,837	32,700	346,382	266,923	23,099	10,739
1898.....	917	541	266,951	126,185	57,333	42,135	358,269	281,285	39,514	22,536

NOTE.—Molasses figures include Syrups. Rice in tierces and bags is reduced to an equivalent in barrels.

ANNUAL PRICES OF GROCERIES.

Average prices of Prime Rio Coffee, per pound; Sugar, Prime New Orleans, Hards, Good Fair and A White, per pound; Molasses, Prime New Orleans, per gallon; Rice, Carolina and Louisiana, per pound, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently:

YEARS.	COFFEE.	SUGAR.					MOLASSES.	RICE.	
	PRIME RIO.	PRIME N. ORLEANS	HARDS.	GOOD FAIR.	A WHITE.	PRIME N. ORLEANS	CAROLINA.	LOUISIANA.	
1882-83.....	10.50	7.83	9.64	7.33	8.96	55.02	7.07	6.42	
1883-84.....	12.87	7.15	8.32	6.65	7.76	52.32	6.51	5.89	
1884-85.....	10.88	6.08	7.00	5.53	6.40	48.70	6.29	5.94	
1885-86.....	10.20	6.01	7.16	5.42	6.62	43.08	5.92	5.16	
1886-87.....	16.79	5.49	6.51	4.99	5.93	42.31	5.46	4.68	
1887-88.....	18.99	5.61	7.40	5.86	6.69	41.50	5.92	5.54	
1888-89.....	18.37	6.75	8.49	6.25	7.70	41.21	5.96	5.06	
1889-90.....	20.81	5.88	7.39	5.30	6.81	40.39	6.01	5.11	
1890-91.....	20.87	4.96	6.12	4.69	5.39	34.60	6.58	5.38	
1891-92.....	18.56	3.70	4.89	3.47	4.31	34.31	5.94	5.01	
1892.....	18.73	3.59	5.04	3.34	4.49	31.73	5.83	4.65	
1893.....	20.52	3.85	5.64	4.00	5.04	38.27	5.93	4.31	
1894.....	20.76	3.45	5.06	3.36	4.36	32.11	5.71	4.98	
1895.....	20.52	3.52	5.03	3.39	4.42	28.97	5.48	4.31	
1896.....	18.59	3.62	4.73	3.50	4.62	31.86	5.04	4.12	
1897.....	15.02	3.62	5.29	....	4.66	26.13	6.08	5.24	
1898.....	9.74	3.89	5.74	....	5.36	31.82	*7.12	*6.03	

* Fancy Head. ‡ Prime.

PRICES OF SUGAR AT NEW YORK.

Weekly quotations at New York, for six years, of 96 degrees Centrifugal Sugar (which closely represents the basis of refining grades) and of Granulated Sugar, per pound, as compiled and arranged by the Superintendent of the Cincinnati Chamber of Commerce from statistics by WILLETT & GRAY:

DATES.	1898		1897		1896		1895		1894		1893	
	96 Deg.	Gran.	96 Deg.	Gran.	96 Deg.	Gran.	96 Deg.	Gran.	96 Deg.	Gran.	96 Deg.	Gran.
January 6...	4.18	4.96	3.18	4.10	3.75	4.59	3.00	3.74	2.87	3.98	3.44	4.60
13...	4.18	4.96	3.18	4.10	3.75	4.59	3.00	3.74	3.00	4.10	3.50	4.60
20...	4.06	4.96	3.18	3.98	3.87	4.72	3.08	3.74	3.00	4.04	3.50	4.60
27...	4.06	4.84	3.18	3.98	3.87	4.65	3.09	3.74	3.06	3.98	3.44	4.60
February 3...	4.06	4.84	3.18	3.98	3.87	4.68	3.12	3.68	3.25	4.04	3.44	4.60
10...	4.18	4.96	3.18	4.10	4.00	4.65	3.00	3.68	3.31	4.17	3.44	4.50
17...	4.18	4.96	3.25	4.10	4.12	4.72	3.00	3.74	3.31	4.17	3.37	4.47
24...	4.18	4.96	3.25	4.10	4.12	4.72	3.00	3.74	3.18	4.17	3.37	4.47
March 3...	4.18	4.96	3.25	3.98	4.12	4.72	3.00	3.80	3.18	4.17	3.37	4.47
10...	4.12	4.84	3.18	4.10	4.12	4.72	3.00	3.86	3.18	4.17	3.34	4.47
17...	4.06	4.84	3.25	4.23	4.18	4.84	3.00	3.86	3.00	3.98	3.50	4.54
24...	4.00	4.84	3.31	4.23	4.18	4.84	3.00	3.86	2.87	3.98	3.62	4.72
31...	4.12	4.84	3.37	4.47	4.18	4.84	3.00	3.86	2.87	3.98	3.75	4.84
April 7...	4.12	4.96	3.37	4.47	4.25	5.08	3.00	3.86	2.87	3.98	3.75	4.84
14...	4.12	4.90	3.28	4.23	4.37	5.20	3.00	3.86	2.75	3.98	3.67	4.90
21...	4.12	4.96	3.25	4.23	4.31	5.20	3.00	3.86	2.31	3.98	4.00	5.08
28...	4.25	5.15	3.25	4.23	4.25	5.14	3.12	3.98	2.87	3.86	4.00	5.08
May 5...	4.18	5.15	3.31	4.29	4.25	5.08	3.25	4.35	2.91	3.91	4.12	5.20
12...	4.18	5.08	3.31	4.29	4.25	5.08	3.37	4.35	2.81	3.91	4.00	5.08
19...	4.25	5.08	3.25	4.23	4.00	4.84	3.37	4.35	2.75	3.91	4.25	5.08
26...	4.31	5.08	3.25	4.23	4.00	4.97	3.37	4.35	2.87	3.86	4.25	5.08
June 2...	4.31	5.08	3.31	4.23	3.75	4.72	3.37	4.35	3.00	3.80	4.25	5.21
9...	4.31	5.08	3.50	4.47	3.81	4.78	3.31	4.35	3.12	3.98	4.50	5.27
16...	4.31	5.08	3.50	4.47	3.62	4.66	3.31	4.35	3.12	3.98	4.50	5.27
23...	4.25	5.08	3.50	4.47	3.50	4.47	3.25	4.35	3.12	3.98	4.37	5.27
30...	4.25	5.08	3.50	4.47	3.50	4.60	3.25	4.35	3.12	3.98	4.37	5.27
July 7...	4.12	5.08	3.50	4.59	3.44	4.47	3.25	4.35	3.18	3.98	4.37	5.34
14...	4.12	5.08	3.62	4.59	3.37	4.47	3.25	4.35	3.12	4.23	4.18	5.34
21...	4.12	5.08	3.62	4.66	3.31	4.85	3.25	4.35	3.12	4.23	3.75	5.08
28...	4.12	5.08	3.75	4.72	3.31	4.35	3.25	4.35	3.12	4.35	3.75	5.08
August 4...	4.12	5.08	3.75	4.72	3.50	4.60	3.31	4.35	3.37	4.47	3.75	5.08
11...	4.25	5.08	3.75	4.72	3.37	4.60	3.31	4.35	3.50	4.47	3.75	5.08
18...	4.25	5.08	3.75	4.72	3.37	4.47	3.25	4.23	3.75	4.60	3.60	5.08
25...	4.31	5.08	3.75	4.72	3.37	4.47	3.25	4.10	3.75	4.72	3.50	5.08
September 1...	4.37	5.15	3.75	4.72	3.25	4.47	3.25	4.16	3.75	4.72	3.50	5.08
8...	4.37	5.21	3.87	4.78	3.25	4.47	3.25	4.23	3.75	4.72	3.75	5.08
15...	4.37	5.21	3.87	4.78	3.06	4.47	3.31	4.41	3.75	4.64	3.84	5.08
22...	4.31	5.21	3.94	4.78	3.00	4.47	3.50	4.47	3.75	4.41	3.87	5.08
29...	4.31	5.08	3.94	4.85	3.06	4.24	3.56	4.58	3.75	4.35	3.87	5.08
October 6...	4.21	4.72	3.87	4.85	3.00	3.98	3.62	4.47	3.75	4.35	3.87	5.08
13...	4.18	4.72	3.87	4.85	3.00	3.86	3.62	4.47	3.50	4.35	4.00	5.08
20...	4.25	4.72	3.81	4.85	3.00	3.86	3.50	4.35	3.50	4.35	4.00	5.08
27...	4.31	4.72	3.81	4.72	3.25	3.98	3.40	4.23	3.50	3.98	3.25	4.72
November 3...	4.31	4.72	3.81	4.72	3.25	3.98	3.37	4.23	3.50	4.10	3.25	4.47
10...	4.31	4.72	3.81	4.72	3.44	4.23	3.37	4.23	3.50	4.10	3.18	4.47
17...	4.44	4.96	3.87	4.72	3.25	4.10	3.37	4.23	3.50	3.98	3.00	4.23
24...	4.50	4.96	3.87	4.72	3.25	4.10	3.37	4.35	3.50	3.98	3.00	4.23
December 1...	4.44	4.96	3.87	4.72	3.31	4.10	3.50	4.35	3.50	3.80	3.00	4.23
8...	4.44	4.96	3.94	4.72	3.25	4.10	3.50	4.35	3.25	3.74	2.87	4.23
15...	4.44	4.84	4.00	4.84	3.25	4.10	3.50	4.35	3.12	3.74	2.87	4.23
22...	4.37	4.72	4.12	4.96	3.18	4.10	3.75	4.72	3.12	3.74	2.87	4.10
29...	4.31	4.72	4.25	4.96	3.18	4.10	3.75	4.72	3.00	3.74	2.75	4.10

Centrifugals.—Average price for											
1898.....	4.23	1896.....	3.62	1894.....	3.24	1892.....	3.31	1890.....	5.44		
1897.....	3.66	1895.....	3.27	1893.....	3.09	1891.....	3.86	1889.....	6.43		

Granulated.—Average price for											
1898.....	4.96	1896.....	4.53	1894.....	4.12	1892.....	4.34	1890.....	6.17		
1897.....	4.50	1895.....	4.15	1893.....	4.81	1891.....	4.04	1889.....	7.64		

NOTE.—About 2 cents duty taken off April 1, 1891. From 1891 to 1896, inclusive, prices represent net cash. In 1894 the price includes 40 per cent duty from August 28. From July 24, 1897, includes 1.96c. per pound duty.

MOVEMENT OF OILS AND TALLOW.

Receipts and shipments of Petroleum, Other Oils and Tallow, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently:

YEARS.	PETROLEUM.		OTHER OILS.		TALLOW.	
	Receipts, bbls.	Shipm'ts, bbls.	Receipts, bbls.	Shipm'ts, bbls.	Receipts, tierces.	Shipm'ts, tierces.
1872-73	170,368	.....	28,494	182,281	36,984	5,149
1873-74	177,282	.....	21,804	196,513	39,412	9,320
1874-75	152,776	.....	30,000	167,788	33,897	3,804
1875-76	166,425	.....	59,364	187,843	28,009	5,490
1876-77	166,223	.....	59,992	210,584	28,194	2,504
1877-78	164,657	.....	54,285	202,658	30,432	3,262
1878-79	201,648	.....	71,074	247,866	27,412	4,846
1879-80	271,964	.....	80,745	304,351	35,379	2,496
1880-81	240,647	.....	129,886	270,163	40,771	10,783
1881-82	241,108	168,896	114,000	96,767	36,263	4,046
1882-83	219,088	123,216	135,959	111,542	32,936	10,319
1883-84	219,980	122,629	124,628	109,898	36,829	14,173
1884-85	234,467	150,612	90,675	68,960	41,223	12,987
1885-86	306,804	220,854	124,458	84,675	40,277	9,963
1886-87	469,940	359,052	107,783	79,414	44,548	13,912
1887-88	635,856	466,349	81,579	81,692	34,175	10,452
1888-89	533,188	335,658	90,954	60,117	39,617	3,699
1889-90	724,305	481,205	83,653	77,746	54,919	3,441
1890-91	679,995	492,187	141,025	106,684	75,277	5,760
1891-92	501,738	306,414	157,006	126,575	57,933	6,600
1892	481,935	274,302	150,000	124,153	60,958	5,559
1893	473,985	292,704	152,954	109,780	54,628	5,110
1894	480,856	206,605	200,806	140,267	50,999	4,583
1895	439,431	195,046	259,636	218,625	44,851	4,734
1896	401,942	178,376	193,305	149,283	57,377	7,028
1897	377,392	144,098	206,964	146,273	48,945	2,440
1898	417,301	142,032	280,200	270,398	74,949	9,181

NOTE.—Petroleum shipments not reported separately from Other Oils previous to 1881-82.

MONTHLY MOVEMENT OF SUGAR AND COFFEE.

Monthly receipts and shipments of Sugar and Coffee, at Cincinnati, for two years, ending December 31:

MONTHS.	SUGAR.								COFFEE.			
	Receipts.				Shipments.				Receipts.		Shipments.	
	1896		1897		1896		1897		1896	1897	1896	1897
	Hhds.	Bbls.	Hhds.	Bbls.	Hhds.	Bbls.	Hhds.	Bbls.	Bags.	Bags.	Bags.	Bags.
January	104	22,243	296	19,510	20	5,967	238	5,434	26,578	34,987	20,294	26,068
February	57	17,553	193	28,932	15	5,372	15	8,944	21,887	35,296	20,876	27,228
March	277	10,404	4	27,948	14	7,486	18	9,653	26,448	38,108	21,608	28,778
April	3	27,343	19	27,042	205	17,527	25	10,465	60,425	37,183	41,932	30,845
May	55	20,822	28	14,285	17	7,154	14	6,879	43,719	29,460	35,212	29,646
June	10	13,701	35	27,374	186	7,199	...	11,062	27,998	26,567	20,633	18,209
July	...	21,397	119	24,130	...	11,808	40	16,902	19,472	28,462	15,221	21,351
August	...	23,535	59	20,135	10	8,636	59	9,397	19,561	25,059	15,838	17,865
September	...	22,380	240	19,025	...	10,387	219	10,303	21,877	23,277	18,772	18,087
October	...	19,185	...	12,144	...	8,471	...	8,474	27,950	19,127	27,290	18,642
November	52	26,704	115	24,374	...	8,813	5	7,977	28,411	21,592	19,617	13,933
December	359	41,684	333	32,047	74	28,304	152	12,570	33,943	27,814	24,042	21,281

PRICES OF CANDLES AND SOAP.

Monthly range of prices of Star Candles, per pound, at Cincinnati, as indicated:

MONTHS.	1896	1897	1896	MONTHS.	1896	1897	1896
January.....	6 $\frac{3}{4}$	7	8	July.....	6 $\frac{3}{4}$	6 $\frac{3}{4}$	7 $\frac{1}{2}$
February.....	6 $\frac{3}{4}$	7	8	August.....	6 $\frac{3}{4}$	6 $\frac{3}{4}$	7 $\frac{1}{2}$
March.....	6 $\frac{3}{4}$	7	8	September.....	6 $\frac{3}{4}$	6 $\frac{3}{4}$	7 @ 7 $\frac{1}{2}$
April.....	6 $\frac{3}{4}$	7	7 $\frac{1}{2}$ @8	October.....	6 $\frac{3}{4}$	6 $\frac{3}{4}$	7
May.....	6 $\frac{3}{4}$	7	7 $\frac{1}{2}$ @8	November.....	6 $\frac{3}{4}$	6 $\frac{3}{4}$	7
June.....	6 $\frac{3}{4}$	6 $\frac{3}{4}$ @7	7 $\frac{1}{2}$	December.....	6 $\frac{3}{4}$ @6 $\frac{3}{4}$	6 $\frac{3}{4}$	7

Prices of leading kinds of Soap, at Cincinnati, at the close of December, as indicated:

KINDS.	1896	1897	1896	1896	1894
German, per box (60 lbs.)..	\$2 10 @ 2 15	\$2 10 @ 2 15	\$2 45 @ 2 50	\$2 60 @ 2 65	\$3 10 @ 3 15
Oleine, " (60 lbs.)..	2 10 @ 2 15	2 10 @ 2 15	2 50 @ 2 60	2 50 @ 2 60	3 05 @ 3 10
Family, " (60 lbs.)..	1 95 @ 2 00	2 05 @ 2 10	2 05 @ 2 10	2 35 @ 2 40	2 75 @ 2 80
Castile, mottled, per lb.	6 @ 8	6 @ 8	6 @ 8	6 $\frac{1}{2}$ @ 8	7 $\frac{3}{4}$ @ 8
Castile, white, "	12 @ 12 $\frac{1}{2}$	12 @ 12 $\frac{1}{2}$	12 @ 12 $\frac{1}{2}$	11 @ 12 $\frac{1}{2}$	11 $\frac{3}{4}$ @ 12
Extra Olive, per box (60 lbs.)	1 95 @ 2 00	2 05 @ 2 10	2 05 @ 2 10	2 45 @ 2 50	2 85 @ 2 90
Queen Olive, " (62 $\frac{1}{2}$ lbs.)	.....	.....	.....	.....	3 40 @ 3 45
Lenox, " (75 lbs.)	2 45 @ 2 50	2 80 @ 2 85	2 80 @ 2 85	3 20 @ 3 25	3 60 @ 3 65
Town Talk, " (62 $\frac{1}{2}$ lbs.)	1 90 @ 1 95	2 10 @ 2 15	2 20 @ 2 25	2 95 @ 3 00	3 20 @ 3 25
Ivory, " (62 $\frac{1}{2}$ lbs.)	6 70 @ 6 75	6 70 @ 6 75	6 70 @ 6 75	6 70 @ 6 75	6 70 @ 6 75

COMPARATIVE PRICES OF OILS.

Prices of Oils under the head of Petroleum, per gallon, which are quoted by the Chamber of Commerce, at Cincinnati, at the close of December, as indicated:

KINDS.	1896	1897	1896	1895	1894	1893	1892
Carbon Oil, 120° flash test.....	6 $\frac{3}{4}$ @ 7 $\frac{1}{4}$	6 $\frac{1}{2}$ @ 7	6 $\frac{1}{2}$ @ 7	8 @ 9	6 @ 6 $\frac{1}{2}$	6 @ 6 $\frac{1}{2}$	6 @ 6 $\frac{1}{2}$
" 150° W. W.	7 $\frac{1}{4}$ @ 8 $\frac{1}{4}$	7 $\frac{1}{2}$ @ 8	7 $\frac{1}{4}$ @ 8	9 @ 10	7 @ 7 $\frac{1}{2}$	7 @ 7 $\frac{1}{2}$	7 @ 7 $\frac{1}{2}$
" H. L., 175° fire test.....	8 $\frac{1}{4}$ @ 9 $\frac{1}{4}$	8 $\frac{1}{2}$ @ 9 $\frac{1}{2}$	8 $\frac{1}{2}$ @ 9 $\frac{1}{2}$	10 @ 11	8 @ 8 $\frac{1}{2}$	8 @ 8 $\frac{1}{2}$	8 @ 8 $\frac{1}{2}$
West Virginia, 28° gravity.....	22 @ 25	22 @ 25	22 @ 25	22 @ 25	20 @ 22	20 @ 22	20 @ 22
" 29° "	20 @ 23	20 @ 23	20 @ 23	20 @ 23	18 @ 20	18 @ 20	18 @ 20

PRODUCTION OF STARCH.

Yearly production of Starch, in pounds, at Cincinnati, for years indicated:

1890-91.....	24,225,000	1896-97.....	23,358,000	1898.....	22,099,000
1891-92.....	14,252,000	1897-98.....	22,576,000	1894.....	28,408,000
1892-93.....	20,135,000	1898-99.....	24,824,000	1895.....	28,630,000
1893-94.....	22,045,000	1899-90.....	30,073,000	1896.....	32,982,000
1894-95.....	21,653,000	1890-91.....	26,780,000	1897.....	31,500,000
1895-96.....	23,685,000	1891-92.....	28,942,000	1898.....	33,500,000

MOVEMENT OF CANDLES AND SOAP.

Receipts and shipments of Candles and Soap, in boxes, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently :

YEARS.	CANDLES.		SOAP.		YEARS.	CANDLES.		SOAP.	
	Receipts.	Shipm'ts.	Receipts.	Shipm'ts.		Receipts.	Shipm'ts.	Receipts.	Shipm'ts.
1868-69.....	1,484	302,193	.....	128,283	1884-85.....	4,636	180,602	125,208	778,987
1869-70.....	2,260	273,122	.....	128,262	1885-86.....	6,574	166,621	115,646	790,582
1870-71.....	2,295	274,358	.....	137,434	1886-87.....	4,477	162,473	91,613	893,870
1871-72.....	1,713	249,949	.....	152,243	1887-88.....	4,055	155,889	101,532	858,515
1872-73.....	2,435	296,130	.....	183,573	1888-89.....	5,217	149,568	102,751	863,684
1873-74.....	4,066	263,123	.....	220,053	1889-90.....	6,301	171,159	140,575	927,608
1874-75.....	7,425	282,690	.....	239,812	1890-91.....	5,855	150,815	170,340	1,011,881
1875-76.....	8,161	265,844	.....	271,636	1891-92.....	7,568	189,717	143,624	1,066,926
1876-77.....	8,634	238,654	.....	332,533	1892.....	12,929	175,326	140,887	1,066,906
1877-78.....	7,976	231,727	.....	366,802	1893.....	168,105	136,977	1,063,153	
1878-79.....	10,794	222,360	.....	448,972	1894.....	9,061	142,273	186,954	1,266,133
1879-80.....	7,234	258,397	.....	482,377	1895.....	10,408	130,548	137,180	1,287,321
1880-81.....	5,289	246,154	.....	485,134	1896.....	7,660	128,002	110,780	1,428,757
1881-82.....	2,860	249,002	55,604	513,925	1897.....	8,702	125,470	153,817	1,546,376
1882-83.....	3,237	200,494	70,458	575,157	1898.....	14,801	137,193	182,087	1,572,797
1883-84.....	3,724	189,765	94,053	671,138					

RECEIPTS AND PRICES OF NAVAL STORES.

Receipts of the several articles of Naval Stores, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently :

ARTICLES.	1898	1897	1896	1895	1894	1893	1892	1891-92	1890-91	1889-90	1888-89
Pitch, bbls.....	860	633	1,449	556	1,040	2,154	1,962	2,816	2,431	1,676	1,767
Rosin, bbls.....	185,435	109,362	98,495	108,864	90,587	60,112	64,376	62,850	70,873	75,331	40,361
Tar, bbls.....	1,835	1,406	2,043	1,476	1,974	2,069	3,592	3,498	1,372	3,275	3,863
Turpentine, bbls.....	58,297	38,576	27,420	25,035	24,775	16,934	31,902	35,585	24,621	28,051	22,804
Totals.....	246,427	149,977	129,407	135,931	118,376	81,269	101,832	104,749	99,297	108,333	68,795

NOTE.—The price of Rosin, for 1898, ranged at \$1.55@1.90 per barrel for car lots, and \$1.65@2.00 for small lots from store; average, \$1.68 for car lots, \$1.78 for small lots. The price of Turpentine ranged at 28@46 cents per gallon; average, 34.61 cents. Average price for Turpentine:

1884-85.....	33.24	1889-90.....	44.94	1894.....	33.21
1885-86.....	37.50	1890-91.....	41.06	1895.....	32.30
1886-87.....	37.93	1891-92.....	35.74	1896.....	29.35
1887-88.....	39.29	1892.....	35.30	1897.....	29.32
1888-89.....	45.46	1893.....	34.35	1898.....	34.61

PRICES OF HOPS.

Prices of choice Hops ranged during the year 1898, by months, as follows:

January.....	16	April.....	15	July.....	14@15	October.....	14@19
February.....	16	May.....	16	August.....	14	November.....	20
March.....	16	June.....	15@15½	September.....	14	December.....	19

NOTE.—October, November and December prices are for new crop.

MOVEMENT OF FLOUR, SEED, POTATOES AND COTTON.

Receipts and shipments of Flour, Grass Seed, Flaxseed, Potatoes and Cotton, at Cincinnati, for commercial and calendar years indicated:

YEARS.	FLOUR.		GRASS SEED.		FLAXSEED.		POTATOES.		COTTON.	
	Receipts, bbls.	Shipm'ts, bbls.	Receipts, bags.	Shipm'ts, bags.	Receipts, bush.	Shipm'ts, bush.	Receipts, bbls.	Shipm'ts, bbls.	Receipts, bales.	Shipm'ts, bales.
1877-78.....	606,667	383,954	53,865	53,943	105,554	17,526	144,806	65,589	184,895	183,983
1878-79.....	613,914	398,653	55,712	50,606	78,300	19,420	180,209	102,541	248,069	244,532
1879-80.....	771,900	503,564	87,155	72,881	106,904	20,124	210,805	99,304	312,319	308,616
1880-81.....	852,955	642,338	66,187	64,247	93,072	35,252	239,953	104,996	325,371	318,003
1881-82.....	779,625	612,329	100,624	83,051	33,504	9,588	429,653	215,728	396,735	396,783
1882-83.....	1,144,464	1,014,379	77,353	74,446	25,548	11,792	445,822	243,570	383,131	376,912
1883-84.....	920,361	709,110	77,288	70,104	18,536	1,142	353,680	228,431	308,387	302,658
1884-85.....	874,548	585,080	85,900	83,509	10,463	2,952	517,619	243,863	276,636	272,447
1885-86.....	832,686	568,989	86,242	82,934	47,095	510	404,909	221,611	387,175	381,016
1886-87.....	1,043,057	897,110	116,172	104,582	54,425	31,567	801,913	178,967	341,100	332,142
1887-88.....	1,028,619	758,253	95,066	91,026	2,966	1,382	614,179	287,729	362,524	353,968
1888-89.....	1,055,122	709,563	100,043	82,279	25,538	18,216	621,821	323,517	385,896	351,272
1889-90.....	1,587,768	1,220,455	118,617	92,872	32,380	23,528	359,534	213,249	316,674	307,443
1890-91.....	1,712,475	1,430,076	77,401	78,874	1,487	237	605,017	225,842	349,839	337,198
1891-92.....	2,040,466	1,710,614	104,549	96,792	108,292	107,942	559,494	331,433	302,096	282,850
1892.....	2,354,846	1,529,181	109,663	95,607	61,158	60,613	558,387	330,157	267,101	260,428
1893.....	1,879,596	1,435,383	118,218	112,405	40,197	38,536	620,018	294,674	221,628	207,406
1894.....	1,475,345	1,089,665	143,136	123,939	993	824	573,067	250,881	347,517	334,137
1895.....	1,892,545	1,504,858	126,563	111,360	2,910	1,546	843,712	373,243	272,368	258,962
1896.....	1,984,843	1,583,208	147,109	124,229	1,682	555	601,965	307,018	295,410	286,820
1897.....	1,984,822	1,592,235	151,067	118,248	1,856	441	734,473	319,525	249,682	240,604
1898.....	2,318,410	1,917,909	165,624	107,770	1,589	57	750,887	259,391	313,709	288,741

MOVEMENT OF GREEN AND DRIED FRUIT.

Receipts and shipments of Green Apples, Oranges, Lemons and Dried Fruit, at Cincinnati, for commercial and calendar years indicated:

YEARS.	GREEN APPLES.		ORANGES.		LEMONS.		DRIED FRUIT.	
	Receipts, bbls.	Shipm'ts, bbls.	Receipts, boxes.	Shipm'ts, boxes.	Receipts, boxes.	Shipm'ts, boxes.	Receipts, pounds.	Shipm'ts, pounds.
1873-74.....	214,958	79,226	24,872	.....	14,015	.....	1,384,992	1,322,304
1874-75.....	150,051	48,063	28,451	.....	12,206	.....	4,337,430	1,849,292
1875-76.....	191,593	69,853	35,496	.....	25,328	.....	2,865,212	1,591,436
1876-77.....	148,639	133,856	35,485	.....	22,130	.....	4,102,023	2,346,820
1877-78.....	116,832	76,235	48,830	.....	16,655	.....	5,609,576	4,199,160
1878-79.....	239,275	151,618	40,486	.....	23,307	.....	4,246,820	2,477,272
1879-80.....	147,699	72,345	39,837	.....	19,375	.....	3,008,936	2,336,152
1880-81.....	216,880	113,314	46,130	.....	23,701	.....	4,791,666	2,949,380
1881-82.....	229,539	119,582	56,344	17,571	25,991	4,973	4,613,840	3,186,036
1882-83.....	305,041	181,091	91,881	35,621	40,979	11,021	3,677,756	4,573,336
1883-84.....	234,033	115,229	141,129	81,965	61,806	18,516	6,701,324	5,335,904
1884-85.....	278,827	114,003	180,046	109,964	45,487	14,765	8,471,120	6,106,240
1885-86.....	281,141	152,414	119,081	62,214	35,148	10,373	5,868,044	3,366,944
1886-87.....	242,058	120,262	198,318	127,415	61,197	18,993	2,764,139	3,828,625
1887-88.....	362,847	198,438	131,216	67,761	53,003	13,946	4,791,080	3,372,407
1888-89.....	275,157	213,170	241,697	153,192	54,549	19,591	3,828,111	2,069,135
1889-90.....	210,659	190,775	244,770	151,779	71,074	25,596	4,298,630	4,040,774
1890-91.....	158,211	92,897	315,033	212,235	52,562	23,612	2,437,197	1,832,312
1891-92.....	234,469	166,741	508,092	391,617	71,939	37,417	5,805,284	4,683,604
1892.....	306,496	153,847	518,524	398,154	72,728	37,133	3,357,473	2,561,180
1893.....	223,263	130,545	526,430	392,852	71,438	34,589	3,340,982	2,522,453
1894.....	239,299	92,398	664,893	505,080	71,955	30,323	6,897,068	4,303,096
1895.....	244,551	155,231	157,632	92,451	56,339	26,002	9,266,633	6,747,802
1896.....	434,013	219,029	99,839	43,236	68,895	27,770	5,708,311	4,367,904
1897.....	385,409	202,185	108,650	50,122	68,230	30,546	5,686,044	3,618,571
1898.....	233,619	103,284	138,304	56,208	42,072	19,691	4,341,041	3,455,200

PRICES OF POTATOES AND BEANS.

Quotations for Potatoes, per barrel, and Beans, per bushel, from store, at Cincinnati, on Tuesday of each week, in three years:

DATES.	POTATOES.			DATES.	BEANS.		
	1896	1897	1898		1896	1897	1898
January 4.....	\$2 00@2 25	90@1 00	\$1 25@1 30	January 4.....	\$1 10@1 20	85@ 95	\$1 30@1 40
11.....	90@1 10	.....	.....	11.....	1 10@1 20	85@ 95	1 30@1 40
18.....	90@1 10	.....	.....	18.....	1 10@1 20	85@ 95	1 30@1 40
25.....	.....	.....	.....	25.....	1 10@1 20	85@ 95	1 30@1 40
February 1.....	.....	96@1 10	.....	February 1.....	1 10@1 20	85@ 95	1 25@1 35
8.....	.....	96@1 10	.....	8.....	1 10@1 20	85@ 95	1 15@1 25
15.....	.....	96@1 10	.....	15.....	1 10@1 20	85@ 95	1 15@1 25
22.....	.....	96@1 10	.....	22.....	1 10@1 20	80@ 90	1 15@1 25
March 1.....	.....	96@1 10	.....	March 1.....	1 10@1 20	75@ 85	1 15@1 25
8.....	.....	96@1 10	.....	8.....	1 10@1 20	75@ 85	1 15@1 25
15.....	.....	96	.....	15.....	1 10@1 20	75@ 85	1 10@1 20
22.....	.....	80@ 95	.....	22.....	1 10@1 20	75@ 85	1 10@1 20
29.....	.....	80@ 95	.....	29.....	1 10@1 20	70@ 80	1 10@1 20
April 5.....	.....	70@ 80	.....	April 5.....	1 10@1 20	70@ 80	1 10@1 20
12.....	.....	80@ 95	.....	12.....	1 15@1 25	70@ 80	1 10@1 20
19.....	.....	80@ 95	.....	19.....	1 20@1 25	70@ 80	1 10@1 20
26.....	.....	80@ 95	.....	26.....	1 30@1 35	70@ 80	1 10@1 20
May 8.....	.....	*3 75@4 75	70@ 80	May 8.....	1 40@1 45	70@ 80	1 10@1 20
17.....	*3 00@3 75	3 25@3 75	60@ 75	17.....	1 50@1 55	75@ 85	1 10@1 20
24.....	2 80@3 75	3 25@3 75	60@ 75	24.....	1 35@1 45	75@ 85	1 10@1 20
31.....	2 80@3 60	2 75@3 25	70@ 80	31.....	1 35@1 45	75@ 85	1 10@1 20
June 7.....	3 00@3 75	1 00@2 50	70@ 80	June 7.....	1 30@1 40	80@ 90	1 10@1 20
14.....	8 00@3 50	2 50@2 85	70@ 95	14.....	1 30@1 40	80@ 90	1 10@1 20
21.....	2 00@2 25	2 25@3 00	70@ 95	21.....	1 25@1 35	80@ 90	1 10@1 20
28.....	2 40@2 75	2 25@2 40	*90@1 35	28.....	1 20@1 30	80@ 90	1 10@1 20
July 5.....	2 25@2 50	2 25@2 50	75@1 00	July 5.....	1 20@1 30	80@ 90	1 10@1 20
12.....	2 25@2 50	1 75@2 50	90@1 25	12.....	1 20@1 30	80@ 90	1 10@1 20
19.....	2 40@2 50	75@1 00	.....	19.....	1 20@1 30	80@ 90	1 05@1 15
26.....	1 75@2 25	2 00@2 25	75@ 90	26.....	1 20@1 30	80@ 90	1 05@1 15
August 2.....	1 50@1 75	2 35@2 50	75@ 90	August 2.....	1 20@1 30	80@ 90	1 05@1 15
9.....	1 50@1 75	2 15@2 25	75@ 90	9.....	1 10@1 20	80@ 90	1 05@1 15
16.....	1 50@1 75	1 75@2 00	75@ 90	16.....	1 10@1 20	90@1 00	1 05@1 15
23.....	1 25@1 65	2 00@2 25	75@ 90	23.....	1 10@1 20	90@1 00	1 05@1 15
30.....	1 50@1 60	1 75@2 00	80@ 90	30.....	1 10@1 20	1 10@1 20	1 05@1 15
September 6.....	1 50@1 60	2 00@2 15	80@ 90	September 6.....	1 10@1 20	1 10@1 20	1 05@1 15
13.....	1 50@1 60	1 85@2 00	90@1 00	13.....	1 10@1 20	1 10@1 20	1 05@1 15
20.....	1 25@1 85	1 90@2 00	90@1 00	20.....	1 10@1 20	1 10@1 20	1 05@1 15
27.....	1 65@1 75	1 85@2 00	75@ 90	27.....	1 10@1 20	1 00@1 05	1 10@1 20
October 4.....	1 50@1 60	2 15@2 35	90@1 00	October 4.....	1 10@1 20	1 05@1 10	1 10@1 25
11.....	1 60@1 60	1 75@2 00	1 00@1 10	11.....	1 10@1 20	1 05@1 10	1 10@1 25
18.....	1 25@1 40	1 50@1 90	1 00@1 10	18.....	1 10@1 20	1 05@1 10	1 10@1 25
25.....	1 25@1 35	1 50@1 90	1 00@1 10	25.....	1 10@1 20	1 05@1 10	1 10@1 25
November 1.....	1 25@1 35	1 75@2 00	75@1 00	November 1.....	1 10@1 20	1 05@1 10	1 10@1 25
8.....	1 25@1 35	1 75@2 00	75@1 00	8.....	1 10@1 20	1 05@1 10	1 10@1 25
15.....	1 25@1 35	1 85@2 25	75@1 00	15.....	1 10@1 20	1 05@1 10	1 00@1 15
22.....	1 25@1 35	1 85@2 25	75@1 00	22.....	1 10@1 20	1 05@1 10	95@1 05
29.....	1 25@1 35	1 85@2 25	75@1 00	29.....	1 10@1 20	1 10@1 20	90@1 00
December 6.....	.....	2 25@2 50	90@1 00	December 6.....	1 10@1 20	1 10@1 20	85@ 95
13.....	.....	2 10@2 35	90@1 00	13.....	1 10@1 20	1 10@1 20	85@ 95
20.....	.....	2 00@2 25	90@1 00	20.....	1 10@1 20	1 10@1 20	85@ 95
27.....	.....	2 00@2 25	90@1 00	27.....	1 10@1 20	1 10@1 20	85@ 95

* New.

POTATO CROPS OF THE UNITED STATES.

Estimated yearly production of Potatoes in the United States, in bushels:

1879.....	181,626,000	1884.....	190,642,000	1889.....	190,000,000	1894.....	170,787,000
1880.....	167,660,000	1885.....	175,029,000	1890.....	140,000,000	1895.....	297,237,000
1881.....	109,145,000	1886.....	168,051,000	1891.....	240,000,000	1896.....	252,285,000
1882.....	170,972,000	1887.....	134,103,000	1892.....	160,000,000	1897.....	164,016,000
1883.....	206,164,000	1888.....	202,365,000	1893.....	183,034,000	1898.....	192,306,000

PRICES OF APPLES, ORANGES AND LEMONS.

Quotations for Green Apples (choice), per barrel; Oranges (choice), per box; Lemons (choice), per box, at Cincinnati, on Tuesday of each week:

DATES.	GREEN APPLES.			ORANGES.		LEMONS.	
	1896	1897	1896	1896	1897	1896	1897
January 4.....	\$2 75@3 25	\$ 90@1 50	\$2 00@2 50	\$2 50@3 75	\$2 50@3 75	\$3 00@3 50	\$2 25@3 50
11.....	2 75@3 25	1 00@2 00	1 75@2 50	2 50@3 75	2 50@3 75	3 00@3 50	2 25@3 50
18.....	2 75@3 25	1 00@2 00	1 75@2 50	2 50@3 75	2 50@3 75	3 00@3 50	2 25@3 50
25.....	3 00@3 50	1 00@2 00	1 75@2 50	2 50@3 75	2 50@3 75	3 00@3 50	1 85@3 00
February 1.....	3 00@3 75	1 00@2 00	2 00@2 50	2 50@3 75	2 25@3 50	3 00@3 50	1 85@3 00
8.....	3 75@4 00	75@1 65	2 00@2 50	2 50@3 75	2 00@3 50	3 00@3 50	1 85@3 00
15.....	3 75@4 00	1 10@2 00	2 00@2 50	2 00@4 00	2 50@3 50	2 75@3 25	1 85@3 00
22.....	3 50@3 75	1 10@1 75	2 25@3 00	2 00@4 00	1 75@3 50	2 75@3 25	1 75@3 00
March 1.....	3 25@3 50	1 10@1 75	2 50@3 00	2 00@4 00	1 75@3 50	2 75@3 25	1 75@3 00
8.....	3 25@3 50	1 10@1 75	2 50@3 00	2 00@4 00	1 75@3 50	3 00@3 25	1 75@3 00
15.....	3 00@3 25	1 10@1 75	2 50@3 00	2 00@4 00	1 75@3 50	2 75@3 25	1 75@3 00
22.....	3 00@3 25	1 25@1 60	2 50@3 25	2 00@4 00	1 75@3 50	2 75@3 25	1 75@3 00
29.....	2 50@3 00	1 25@1 60	2 50@3 25	1 75@3 10	1 75@3 50	3 25@3 50	1 75@3 00
April 5.....	2 50@3 00	1 50@1 75	3 00@4 00	1 75@3 10	1 75@3 50	3 25@3 50	1 75@3 00
12.....	2 75@3 40	1 75@2 00	3 00@4 00	2 00@3 25	1 75@3 50	2 75@3 50	1 75@3 00
19.....	2 75@3 25	2 00@2 25	3 00@4 00	2 00@3 25	2 50@4 00	2 75@3 50	2 00@3 00
26.....	2 75@3 25	2 25@2 50	2 50@3 50	2 00@3 50	2 50@4 00	2 75@3 50	2 00@3 00
May 3.....	2 75@3 25	2 50@2 75	2 50@3 50	2 50@3 50	2 50@4 00	2 75@3 50	2 00@3 50
10.....	2 75@3 25	2 25@2 50	2 00@2 50	2 25@4 00	3 00@4 50	3 00@3 50	2 25@3 50
17.....	2 75@3 25	2 25@2 50	2 00@2 50	2 25@4 00	3 00@4 50	3 00@3 50	2 25@3 50
24.....	2 75@3 25	2 50@3 25	2 00@2 50	2 25@4 00	3 00@4 00	3 00@3 50	2 00@3 50
31.....	2 75@3 25	2 50@3 25	2 00@2 50	2 25@4 00	3 00@4 00	3 00@3 50	2 00@3 50
June 7.....	2 75@3 25	3 00@3 75	1 50@2 00	2 00@3 00	3 00@4 00	3 00@3 50	2 00@3 50
14.....	2 75@3 25	8 00@3 50	1 50@2 00	2 00@3 00	2 50@4 00	3 00@3 50	2 50@3 50
21.....	*2 50@3 50	.....	1 50@2 00	2 25@4 00	2 50@4 00	4 75@5 00	2 50@3 50
28.....	3 00	.....	1 00@1 50	2 25@4 00	3 00@4 00	4 75@5 50	3 75@4 50
July 5.....	3 00	.....	1 00@1 50	2 25@4 00	3 00@4 00	4 75@5 50	3 50@4 50
12.....	3 00	*2 00@2 50	1 75	2 25@4 00	3 00@4 00	4 75@5 50	4 00@5 00
19.....	2 00@2 50	1 75@2 25	1 00	2 25@4 00	3 00@4 00	4 75@5 50	4 00@5 00
26.....	2 00@2 50	1 00@1 25	1 00	2 25@3 50	4 00@5 00	4 25@5 00	3 75@4 50
August 2.....	2 00@2 75	1 00@1 25	1 00	2 25@3 50	4 00@5 00	4 25@5 00	3 75@4 50
9.....	2 00@2 50	1 25@1 50	75@1 00	2 25@3 50	4 00@5 00	4 25@5 00	3 75@4 50
16.....	1 75@2 00	1 00@1 25	75	2 25@3 50	4 00@5 00	4 25@5 00	3 75@4 50
23.....	1 75@2 00	1 25@2 00	1 00@1 25	2 25@3 50	4 50@5 00	4 25@5 00	3 50@4 25
30.....	1 75@2 00	1 00@1 50	1 00@1 25	2 25@3 50	4 50@5 00	4 25@5 00	3 50@4 25
September 6.....	1 75@2 00	1 00@1 50	1 00	2 25@3 50	4 50@5 00	4 25@5 00	3 50@4 25
13.....	1 75@2 25	1 50@2 00	75@1 00	2 25@3 50	4 50@5 00	4 25@5 00	3 50@4 25
20.....	1 75@2 25	2 25	1 25@1 75	2 25@3 50	4 50@5 00	4 25@5 00	3 50@4 25
27.....	1 75@2 25	2 25	1 25@1 75	3 00@3 50	4 50@5 00	5 50@7 00	3 50@4 25
October 4.....	1 50@2 50	2 00@2 25	1 25@1 40	3 00@3 50	4 50@5 00	5 50@7 00	3 25@4 25
11.....	1 50@2 50	1 25	90@1 00	3 00@3 50	4 50@5 00	5 50@7 00	3 25@4 25
18.....	1 50@2 50	1 75@2 25	85@70	3 00@3 50	4 50@5 00	5 50@7 00	3 25@4 25
25.....	1 50@2 50	1 75@2 25	75@90	3 75	4 25@4 75	5 50@6 50	3 25@4 25
November 1.....	2 50@3 00	1 75@2 25	1 00@1 25	3 75	4 25@4 75	5 50@6 50	3 00@4 00
8.....	2 50@3 00	2 00@2 50	1 00@1 50	3 75	4 25@4 75	5 50@6 50	3 00@4 00
15.....	2 50@3 00	2 25@2 75	90@1 50	3 75	4 00@4 50	5 50@6 50	3 00@4 00
22.....	2 50@3 00	2 25@2 75	90@1 50	3 75@4 00	4 00@4 50	4 00@5 00	3 00@4 00
29.....	2 50@3 00	2 25@2 75	90@1 40	3 75@4 00	3 50@4 00	4 00@5 00	3 25@4 25
December 6.....	2 50@3 00	2 75@3 25	85@1 25	3 00@4 00	3 50@4 00	4 00@5 00	3 25@4 25
13.....	2 75@3 25	2 75@3 25	90@1 50	3 00@4 00	3 50@4 00	4 00@4 50	3 25@4 25
20.....	2 75@3 25	2 75@3 25	90@1 50	2 75@4 00	3 50@4 00	4 00@4 50	3 25@4 25
27.....	2 75@3 25	2 75@3 25	90@1 50	2 75@4 00	3 50@4 00	4 00@4 50	3 25@4 25

* New.

PRICES OF ONIONS.

Monthly range in prices of Onions, per barrel, at Cincinnati, for the year 1896:

January.....	\$2 00@2 25	April.....	\$2 00@3 50	July.....	\$1 75@2 50	October.....	\$1 10@1 25
February.....	2 00@2 25	May.....	3 00@3 50	August.....	1 65@2 25	November.....	1 00@1 25
March.....	1 50@2 25	June.....	2 25@3 25	September...	1 10@1 75	December.....	1 20@1 65

PRICES OF DRIED FRUIT AND FEATHERS.

Quotations for Dried Apples, Dried Peaches (California) and Dried Apricots, per pound, and Feathers, per pound, on Tuesday of each week, in two years:

DATES.	DRIED APPLES.		DRIED PEACHES.		DRIED APRICOTS.		FEATHERS.	
	1896	1897	1896	1897	1896	1897	1896	1897
January 4.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 8	9 @ 10	33	36
11.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 8	9 @ 10	33	36
18.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 8	9 @ 10	34 @ 35	36
25.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 8	9 @ 10	34 @ 35	36
February 1.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 8	9 @ 10	34 @ 35	36
8.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 8	9 @ 10	34 @ 35	35
15.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 7 1/2	9 @ 10	34 @ 35	35
22.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 7 1/2	9 @ 10	34 @ 35	35
March 1.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 7 1/2	9 @ 10	34 @ 35	35
8.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 7 1/2	9 @ 10	34 @ 35	35
15.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 7 1/2	9 @ 10	34 @ 35	35
22.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 7 1/2	9 @ 10	34 @ 35	35
29.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 7 1/2	9 @ 10	34 @ 35	35
April 5.....	4 @ 4 1/4	2 @ 2 1/4	7 @ 8	6 @ 7	6 1/2 @ 7 1/2	9 @ 10	34 @ 35	35
12.....	3 1/2 @ 3 3/4	2 @ 2 1/4	6 @ 7	6 @ 7	7 @ 8	9 @ 10	34 @ 35	35
19.....	3 1/2 @ 3 3/4	2 @ 2 1/4	6 @ 7	6 @ 7	7 @ 8	9 @ 10	34 @ 35	35
26.....	3 1/2 @ 3 3/4	2 @ 2 1/4	6 @ 7	6 @ 7	7 @ 8	9 @ 10	34 @ 35	35
May 3.....	3 1/2 @ 3 3/4	2 @ 2 1/4	7 @ 8	6 @ 7	7 1/2 @ 8 1/2	9 @ 10	34	35
10.....	3 1/2 @ 3 3/4	2 @ 2 1/4	7 @ 8	6 @ 7	7 1/2 @ 8 1/2	9 @ 10	34	35
17.....	3 1/2 @ 3 3/4	2 @ 2 1/4	7 @ 8	6 @ 7	7 1/2 @ 8 1/2	9 @ 10	34	35
24.....	.....	2 @ 2 1/4	.....	6 @ 7	.....	.....	34	35
31.....	.....	2 @ 2 1/4	.....	6 @ 7	.....	.....	34	35
June 7.....	.....	2 @ 2 1/4	.....	6 @ 7	.....	.....	34	35
14.....	.....	2 @ 2 1/4	.....	6 @ 7	.....	.....	34	35
21.....	.....	2 @ 2 1/4	.....	6 @ 7	.....	.....	34	35
28.....	.....	2 @ 2 1/4	.....	6 @ 7	.....	.....	34	34
July 5.....	.....	2 @ 2 1/4	.....	6 @ 7	.....	.....	34	34
12.....	.....	.....	.....	.....	.....	.....	34	34
19.....	.....	.....	.....	.....	.....	.....	34	34
26.....	.....	.....	.....	.....	.....	.....	34	35
August 2.....	.....	.....	.....	.....	.....	.....	34	35
9.....	.....	.....	.....	.....	.....	.....	34	36
16.....	.....	.....	.....	.....	.....	.....	34	36
23.....	.....	.....	.....	.....	.....	.....	34	36
30.....	.....	.....	.....	.....	.....	.....	34	36
September 6.....	.....	.....	.....	.....	.....	.....	34	35
13.....	.....	.....	.....	8 @ 9	.....	6 1/2 @ 7 1/2	34	35
20.....	.....	.....	.....	8 @ 9	.....	6 1/2 @ 7 1/2	34	35
27.....	.....	.....	.....	8 @ 9	.....	6 1/2 @ 7 1/2	34	35
October 4.....	.....	.....	.....	8 @ 9	.....	6 1/2 @ 7 1/2	34	35
11.....	.....	.....	.....	8 @ 9	.....	6 1/2 @ 7 1/2	34	35
18.....	.....	3 @ 3 1/2	.....	7 @ 10	.....	7 1/2 @ 11	34	35
25.....	.....	3 @ 3 1/2	.....	7 @ 10	.....	7 1/2 @ 11	34	35
November 1.....	4 1/2 @ 5	3 @ 3 1/2	.....	7 @ 10	.....	7 1/2 @ 11	34	35
8.....	4 1/2 @ 5	3 @ 3 1/2	.....	7 1/2 @ 8 1/2	13 @ 18	6 1/2 @ 12	34	35
15.....	5 @ 5 1/2	3 @ 3 1/2	9 @ 10	7 1/2 @ 8 1/2	13 @ 18 1/2	6 1/2 @ 12	34	35
22.....	5 @ 5 1/2	3 @ 3 1/2	9 @ 10	7 1/2 @ 8 1/2	13 @ 18 1/2	6 1/2 @ 12	34	35
29.....	5 @ 5 1/2	3 @ 3 1/2	9 @ 10	7 1/2 @ 8 1/2	13 @ 18 1/2	6 1/2 @ 12	34	35
December 6.....	5 @ 5 1/2	4 @ 4 1/4	9 1/2 @ 10 1/2	7 1/2 @ 8 1/2	13 @ 18 1/2	6 1/2 @ 8	34	35
13.....	5 @ 5 1/2	4 @ 4 1/4	9 @ 9 1/2	7 1/2 @ 8 1/2	13 @ 18 1/2	6 1/2 @ 8	34	35
20.....	5 @ 5 1/2	4 @ 4 1/4	9 @ 9 1/2	7 @ 8	13 @ 18 1/2	6 1/2 @ 8	34	35
27.....	5 @ 5 1/2	4 @ 4 1/4	9 @ 9 1/2	7 @ 8	13 @ 18 1/2	6 1/2 @ 8	34 @ 35	35

* New.

HAY CROPS OF THE UNITED STATES.

Estimated yearly production of Hay in the United States, representing tons:

1879.....	35,493,000	1884.....	48,470,000	1889.....	48,000,000	1894.....	54,874,000
1880.....	31,925,000	1885.....	44,731,000	1890.....	50,000,000	1895.....	47,078,000
1881.....	35,135,000	1886.....	41,796,000	1891.....	53,000,000	1896.....	59,282,000
1882.....	38,138,000	1887.....	41,454,000	1892.....	57,000,000	1897.....	60,665,000
1883.....	46,864,000	1888.....	46,643,000	1893.....	65,766,000	1898.....	66,377,000

WEEKLY EXPORTS OF HOG PRODUCT.

Weekly exports of Hog Product from principal Atlantic seaboard ports, as reported by J. C. BROWN, Statistician, New York Produce Exchange:

DATES.	1896			1897		
	Pork, bbls.	Lard, lbs.	Meats, lbs.	Pork, bbls.	Lard, lbs.	Meats, lbs.
January 8.....	8,584	19,071,070	24,727,713	4,290	6,677,596	13,948,672
15.....	6,658	14,661,466	17,891,013	6,871	9,625,884	15,994,281
22.....	6,608	13,289,928	20,268,479	3,007	11,637,379	19,169,529
29.....	4,696	13,854,465	15,475,627	5,129	9,407,371	16,339,065
February 5.....	4,170	10,897,541	20,132,443	4,882	7,189,311	14,772,216
12.....	4,806	11,042,053	21,720,158	3,689	10,154,808	17,628,406
19.....	6,599	15,906,714	24,448,404	5,347	18,014,216	15,866,182
26.....	6,713	11,370,821	19,478,180	6,368	11,357,972	14,677,951
March 5.....	5,800	13,844,577	20,626,762	5,727	9,920,044	12,876,566
12.....	5,285	15,468,114	17,721,042	3,104	9,586,980	16,710,277
19.....	6,884	12,842,044	18,238,125	5,751	12,475,946	17,910,429
26.....	5,801	23,224,842	19,250,383	5,208	13,035,414	13,695,296
April 2.....	3,729	15,237,372	21,453,283	6,957	14,065,810	19,097,014
9.....	6,566	16,667,968	21,384,117	7,021	9,997,399	15,041,495
16.....	4,908	14,528,708	17,873,465	3,054	9,318,856	14,521,433
23.....	6,297	10,228,587	16,992,637	3,737	9,963,266	12,034,350
30.....	8,036	12,715,693	21,860,510	5,451	14,284,230	16,755,781
May 7.....	4,977	13,660,063	24,247,220	2,245	13,571,910	15,275,338
14.....	7,221	20,550,805	25,202,206	3,805	9,048,969	12,408,566
21.....	5,059	24,052,920	24,871,600	5,605	13,990,864	17,703,287
28.....	5,884	15,481,697	21,747,971	3,064	10,364,738	16,237,322
June 4.....	7,343	17,334,604	21,797,616	3,732	10,343,420	11,864,454
11.....	3,186	12,532,587	15,863,901	4,005	10,631,828	17,238,666
18.....	4,143	10,538,505	18,291,801	2,170	12,452,545	16,066,854
25.....	3,148	6,878,792	12,271,447	3,598	15,436,531	15,099,954
July 2.....	2,372	7,485,569	13,865,280	5,647	10,571,090	16,602,322
9.....	2,875	3,703,818	10,974,212	5,125	14,744,066	15,782,512
16.....	3,400	5,184,145	12,429,014	5,844	10,428,359	14,642,736
23.....	3,452	6,099,234	17,115,536	5,795	7,618,676	15,239,211
30.....	3,069	6,565,402	13,972,664	3,398	8,314,747	14,786,300
August 6.....	4,493	9,998,008	17,984,697	3,741	10,692,107	15,502,324
13.....	3,894	8,548,800	17,195,554	8,644	9,941,713	15,738,355
20.....	3,964	9,090,723	15,620,261	4,394	9,172,423	11,823,849
27.....	4,102	11,706,420	18,562,397	2,941	10,821,101	14,199,618
September 3.....	3,698	13,319,794	22,546,751	6,122	13,511,933	16,690,718
10.....	3,638	10,017,196	14,971,956	3,418	9,883,528	14,000,172
17.....	3,400	17,508,078	17,110,796	6,909	13,185,220	16,520,565
24.....	5,627	14,619,082	16,771,329	5,830	12,760,352	15,973,698
October 1.....	3,975	14,346,972	15,156,729	4,788	10,723,486	13,200,064
8.....	4,656	16,968,891	15,942,534	4,516	9,109,327	14,302,449
15.....	5,261	18,942,447	17,049,362	4,090	12,748,962	12,967,783
22.....	5,219	15,876,291	18,838,297	5,035	8,964,569	13,767,515
29.....	5,358	14,042,371	17,180,764	2,983	13,935,123	11,703,503
November 5.....	5,008	24,609,361	19,974,685	4,990	7,040,985	16,708,943
12.....	6,588	16,074,351	16,970,440	2,670	13,506,364	14,914,031
19.....	5,530	17,775,069	18,212,442	5,623	9,300,803	15,822,828
26.....	6,189	15,967,661	15,417,014	2,245	9,812,449	16,152,414
December 3.....	7,886	14,611,767	16,951,775	5,243	18,946,178	20,361,046
10.....	4,722	18,428,335	21,262,198	5,857	16,616,790	18,545,808
17.....	3,186	12,038,232	15,701,650	6,954	15,539,328	17,098,387
24.....	4,695	18,558,164	21,741,131	3,390	12,321,687	13,025,675
31.....	7,668	11,465,358	17,438,321	4,285	15,914,771	21,135,894

Annual exports of Hog Product from the United States, representing pounds, for provision trade years ending October 31:

KINDS.	1897-98	1896-97	1895-96	1894-95	1893-94	1892-93	1891-92
Bacon	635,000,000	554,000,000	444,000,000	414,000,000	436,000,000	356,000,000	588,000,000
Hams	212,000,000	173,000,000	150,000,000	103,000,000	92,000,000	82,000,000	82,000,000
Pork	123,000,000	67,000,000	65,000,000	66,000,000	61,000,000	51,000,000	78,000,000
Total Meats.....	970,000,000	794,000,000	659,000,000	583,000,000	589,000,000	489,000,000	698,000,000
Lard	715,000,000	600,000,000	534,000,000	491,000,000	451,000,000	361,000,000	478,000,000
Total Product.....	1,685,000,000	1,394,000,000	1,193,000,000	1,074,000,000	1,040,000,000	850,000,000	1,176,000,000

COTTON CROPS OF THE UNITED STATES.

Estimated yearly production of Cotton in the United States, as indicated:

YEARS.	Bales.	YEARS.	Bales.	YEARS.	Bales.
1839-39.....	1,363,403	1857-58.....	3,238,902	1879-80.....	5,757,397
1839-40.....	2,181,749	1858-59.....	3,994,481	1880-81.....	6,589,829
1840-41.....	1,639,353	1859-60.....	4,823,770	1881-82.....	5,435,845
1841-42.....	1,688,675	1860-61.....	3,826,086	1882-83.....	6,992,234
1842-43.....	2,394,203	1861 to 1865.....	No record.	1883-84.....	5,714,052
1843-44.....	2,108,579	1865-66.....	2,228,987	1884-85.....	5,669,021
1844-45.....	2,484,662	1866-67.....	2,059,271	1885-86.....	6,550,215
1845-46.....	2,170,537	1867-68.....	2,496,895	1886-87.....	6,513,623
1846-47.....	1,860,479	1868-69.....	2,439,039	1887-88.....	7,017,707
1847-48.....	2,424,113	1869-70.....	3,154,946	1888-89.....	6,935,082
1848-49.....	2,808,596	1870-71.....	4,352,317	1889-90.....	7,313,725
1849-50.....	2,171,706	1871-72.....	2,974,351	1890-91.....	8,653,518
1850-51.....	2,415,257	1872-73.....	3,930,508	1891-92.....	9,038,707
1851-52.....	3,090,029	1873-74.....	4,170,338	1892-93.....	6,717,142
1852-53.....	3,352,882	1874-75.....	3,832,991	1893-94.....	7,527,211
1853-54.....	3,035,027	1875-76.....	4,669,288	1894-95.....	9,892,766
1854-55.....	2,932,339	1876-77.....	4,485,423	1895-96.....	7,162,473
1855-56.....	3,645,345	1877-78.....	4,811,265	1896-97.....	8,714,011
1856-57.....	3,056,519	1878-79.....	5,073,581	1897-98.....	11,180,960

NOTE.—The above represents the estimates of the *Financial Chronicle*.

ANNUAL PRICES OF COTTON.

Average annual quotations for the various grades of Cotton, at Cincinnati:

YEARS.	ORDINARY.	GOOD ORDINARY.	LOW MIDDLING.	MIDDLING.	GOOD MIDDLING.	MIDDLING FAIR.	FAIR.
1884-85.....	8.45	9.55	10.14	10.42	10.69	11.08	11.60
1885-86.....	7.18	8.27	8.83	9.17	9.76	10.67	11.26
1886-87.....	7.69	8.71	9.45	9.72	10.00	10.78	11.51
1887-88.....	7.81	8.81	9.56	9.83	10.13	10.76	11.51
1888-89.....	8.12	9.12	9.87	10.24	10.63	11.24	11.99
1889-90.....	8.80	10.24	10.76	11.04	11.31	11.83	12.58
1890-91.....	6.80	8.30	8.79	9.25	9.84	10.38	11.13
1891-92.....	5.32	6.82	7.20	7.60	7.89	.....	.....
1892.....	5.52	6.96	7.35	7.73	7.98	.....	.....
1893.....	6.58	7.57	8.04	8.38	8.63	9.13	.....
1894.....	5.81	6.31	6.68	6.93	7.19	7.68	.....
1895.....	5.42	6.42	6.80	7.04	7.42	7.93	.....
1896.....	5.94	6.94	7.31	7.57	7.82	8.10	.....
1897.....	5.37	6.37	6.79	6.96	7.27	7.83	.....
1898.....	4.06	5.06	5.44	5.69	5.94	6.46	.....

PRICES OF COTTON WARPS, ETC.

Prices of Warps, Wicking, Twine, Rope, Batting and Wadding, at Cincinnati, at the close of December, for years indicated:

STOCK.	1898	1897	1896	STOCK.	1898	1897	1896
Carpet Warps, 5 ply, white, per lb.....	12	12	18½	Rope, 3-16 to 6-16 inch, fine thread, per lb....	9½	11	11
Carpet Warps, 5-ply, colored, per lb.....	14½	15	15½	Batting, per lb.....	6 @12	5¼@12	6 @ 12
Candle Wicking, per lb	12	13	13	Wadding, black, 2 lbs., per doz.....	20 @30	20 @30	20 @ 30
Twine, Argonaut, per lb.....	12½	12½	14	Wadding, black, 1 lb., per doz.....	15 @17	15 @17	15 @ 17

NOTE.—Above prices based on sixty days' time; 2 per cent off if paid in ten days.

WEEKLY PRICES OF COTTON.

Quotations for the various grades of Cotton, per pound, at Cincinnati, on Tuesday of each week, in two years:

DATES.		ORDINARY.		GOOD ORDINARY.		LOW MIDDLING.		MIDDLING.		GOOD MIDDLING.		MIDDLING FAIR.	
		1896	1897	1896	1897	1896	1897	1896	1897	1896	1897	1896	1897
January	4..	37	51	47	61	51	68	53	67	55	71	61	75
	11..	37	50	47	60	51	68	53	67	55	71	61	75
	18..	37	50	47	60	51	68	53	67	55	71	61	75
	25..	37	50	47	60	51	68	53	67	55	71	61	75
February	1..	37	50	47	60	51	68	53	67	55	71	61	75
	8..	4	5	5	6	5	6	5	6	5	6	5	6
	15..	4	5	5	6	5	6	5	6	5	6	5	6
	22..	4	5	5	6	5	6	5	6	5	6	5	6
March	1..	4	5	5	6	5	6	5	6	5	6	5	6
	8..	4	5	5	6	5	6	5	6	5	6	5	6
	15..	4	5	5	6	5	6	5	6	5	6	5	6
	22..	4	5	5	6	5	6	5	6	5	6	5	6
April	29..	4	5	5	6	5	6	5	6	5	6	5	6
	5..	4	5	5	6	5	6	5	6	5	6	5	6
	12..	4	5	5	6	5	6	5	6	5	6	5	6
	19..	4	5	5	6	5	6	5	6	5	6	5	6
May	26..	4	5	5	6	5	6	5	6	5	6	5	6
	3..	4	5	5	6	5	6	5	6	5	6	5	6
	10..	4	5	5	6	5	6	5	6	5	6	5	6
	17..	4	5	5	6	5	6	5	6	5	6	5	6
June	24..	4	5	5	6	5	6	5	6	5	6	5	6
	31..	4	5	5	6	5	6	5	6	5	6	5	6
	7..	4	5	5	6	5	6	5	6	5	6	5	6
	14..	4	5	5	6	5	6	5	6	5	6	5	6
July	21..	4	5	5	6	5	6	5	6	5	6	5	6
	28..	4	5	5	6	5	6	5	6	5	6	5	6
	5..	4	5	5	6	5	6	5	6	5	6	5	6
	12..	4	5	5	6	5	6	5	6	5	6	5	6
August	19..	4	5	5	6	5	6	5	6	5	6	5	6
	26..	4	5	5	6	5	6	5	6	5	6	5	6
	2..	4	5	5	6	5	6	5	6	5	6	5	6
	9..	4	5	5	6	5	6	5	6	5	6	5	6
September	16..	4	5	5	6	5	6	5	6	5	6	5	6
	23..	4	5	5	6	5	6	5	6	5	6	5	6
	30..	4	5	5	6	5	6	5	6	5	6	5	6
	6..	4	5	5	6	5	6	5	6	5	6	5	6
October	13..	4	5	5	6	5	6	5	6	5	6	5	6
	20..	37	50	47	60	51	68	53	67	55	71	61	75
	27..	37	50	47	60	51	68	53	67	55	71	61	75
	4..	37	50	47	60	51	68	53	67	55	71	61	75
November	11..	37	50	47	60	51	68	53	67	55	71	61	75
	18..	37	50	47	60	51	68	53	67	55	71	61	75
	25..	37	50	47	60	51	68	53	67	55	71	61	75
	1..	37	50	47	60	51	68	53	67	55	71	61	75
December	8..	37	50	47	60	51	68	53	67	55	71	61	75
	15..	37	50	47	60	51	68	53	67	55	71	61	75
	22..	37	50	47	60	51	68	53	67	55	71	61	75
	29..	37	50	47	60	51	68	53	67	55	71	61	75
	6..	37	50	47	60	51	68	53	67	55	71	61	75
	13..	37	50	47	60	51	68	53	67	55	71	61	75
	20..	37	50	47	60	51	68	53	67	55	71	61	75
	27..	37	50	47	60	51	68	53	67	55	71	61	75

FARM VALUE OF COTTON.

Estimated farm value of Cotton produced in the United States, as indicated:

1878-79.....	\$198,854,000	1883-84.....	\$250,585,000	1888-89.....	\$292,139,000	1893-94.....	\$263,857,000
1879-80.....	242,140,000	1884-85.....	253,993,000	1889-90.....	308,424,000	1894-95.....	265,000,000
1880-81.....	280,266,000	1885-86.....	269,990,000	1890-91.....	350,000,000	1895-96.....	255,000,000
1881-82.....	259,016,000	1886-87.....	257,295,000	1891-92.....	313,000,000	1896-97.....	270,000,000
1882-83.....	309,696,000	1887-88.....	291,045,000	1892-93.....	268,000,000	1897-98.....	319,491,000

WEEKLY MOVEMENT OF COTTON.

Receipts and shipments of Cotton, representing bales, at Cincinnati, and estimated stock at the close of each week, with actual stock at close of each year:

DATES.	RECEIPTS.			SHIPMENTS.			*STOCK.		
	1897-98	1896-97	1895-96	1897-98	1896-97	1895-96	1897-98	1896-97	1895-96
September 4.....	212	618	942	78	466	905	4,808	3,918	5,819
11.....	44	1,560	265	44	1,255	258	4,808	3,923	5,226
18.....	108	2,285	98	218	2,426	116	4,498	3,482	4,908
25.....	1,540	5,427	477	1,005	5,021	400	4,833	3,588	4,680
October 2.....	1,574	6,138	1,269	1,527	5,611	944	4,680	3,815	4,705
9.....	3,463	8,309	3,094	3,169	7,718	2,250	4,774	4,106	5,199
16.....	6,682	9,534	5,859	5,218	9,118	4,713	5,988	4,222	5,995
23.....	6,430	13,362	10,985	6,343	12,442	10,048	5,875	4,842	6,532
30.....	7,700	12,812	10,737	7,398	12,398	9,965	5,977	4,961	6,954
November 6.....	8,076	12,225	12,961	6,711	11,155	10,185	7,142	5,731	9,430
13.....	8,683	9,658	12,249	8,274	12,640	11,432	7,351	2,549	9,897
20.....	10,402	9,483	9,682	8,373	6,910	10,345	9,180	4,922	8,884
27.....	8,799	18,094	9,998	7,440	18,382	8,167	10,339	4,424	10,365
December 4.....	10,261	17,244	8,181	11,344	15,206	8,880	9,066	6,262	9,316
11.....	11,275	12,466	6,025	10,990	12,908	6,201	9,141	5,625	8,840
18.....	11,353	13,474	8,578	10,692	11,794	8,061	9,602	7,006	9,087
25.....	11,196	10,278	7,509	9,968	11,426	7,079	10,610	5,657	9,167
January 1.....	11,873	17,571	5,618	14,566	18,127	5,129	7,717	4,901	9,356
8.....	10,689	12,479	6,354	9,939	9,324	7,864	8,267	7,756	7,546
15.....	12,669	7,368	3,898	12,192	8,964	2,364	8,444	5,960	8,290
22.....	9,194	5,325	3,087	9,750	5,904	3,316	7,588	5,181	7,751
29.....	9,853	6,682	3,514	8,529	6,753	3,290	8,612	4,910	7,675
February 5.....	8,889	7,119	4,625	7,486	6,735	3,806	9,715	5,094	8,192
12.....	10,409	6,970	4,006	11,024	5,451	5,016	8,800	6,413	6,882
19.....	6,949	11,365	4,631	6,811	9,603	3,564	8,698	8,075	7,699
26.....	9,244	6,348	6,197	8,466	8,027	5,403	9,116	6,196	8,243
March 5.....	8,129	7,509	6,197	8,118	5,988	6,869	8,827	7,667	7,321
12.....	9,498	5,107	2,741	8,213	5,994	3,174	9,812	6,580	6,588
19.....	11,863	6,495	4,705	8,908	6,622	4,848	12,467	6,453	6,100
26.....	6,657	4,672	6,260	9,433	5,374	5,217	9,391	5,551	6,743
April 2.....	6,528	4,798	3,544	8,469	4,369	4,444	12,150	5,875	5,423
9.....	6,333	3,454	4,937	7,386	3,825	5,023	10,797	5,304	4,987
16.....	4,949	3,180	2,131	5,582	2,777	2,303	9,864	5,607	4,465
23.....	4,514	2,063	1,649	3,901	2,905	1,569	10,177	4,565	4,245
30.....	3,915	2,864	3,162	4,446	2,295	3,283	9,346	5,034	8,374
May 7.....	1,634	1,721	2,807	2,184	1,569	2,671	8,496	4,986	3,710
14.....	3,494	3,225	4,926	2,855	3,255	5,475	8,835	4,866	2,861
21.....	2,625	2,459	5,746	2,300	2,414	5,290	8,860	4,801	3,317
28.....	2,104	2,508	4,530	2,444	1,438	3,108	8,520	5,971	4,739
June 4.....	2,726	2,861	6,732	1,654	3,363	7,970	9,592	5,369	3,501
11.....	4,699	1,745	3,488	3,568	1,104	3,548	10,628	5,710	3,441
18.....	1,761	1,960	2,793	2,864	2,402	2,642	9,420	5,198	3,592
25.....	1,256	1,479	1,595	914	1,497	1,427	9,662	5,080	3,760
July 2.....	1,768	1,491	3,164	1,223	1,499	2,974	10,107	4,972	3,950
9.....	1,306	1,964	1,775	1,255	2,295	1,849	10,058	4,641	3,876
16.....	2,059	1,562	476	1,168	1,390	477	10,849	4,713	3,875
23.....	1,650	943	347	1,772	474	500	10,627	5,182	3,722
30.....	769	395	377	420	287	233	10,876	5,190	3,866
August 6.....	894	554	774	879	652	936	10,791	5,092	3,704
13.....	1,360	371	349	1,307	509	142	10,744	4,954	3,911
20.....	1,071	244	813	1,061	407	821	10,634	4,791	4,403
27.....	579	111	221	713	233	108	11,676	14,790	14,066

* Approximate stock. † Actual count, including Cotton in hands of spinners.

NOTE.—Consumption of Cotton, at Cincinnati: in 1897-98, 10,000 bales; in 1896-97, 9,000 bales; in 1895-96, 11,450 bales; in 1894-95, 14,900 bales; in 1893-94, 8,200 bales; in 1892-93, 15,800 bales; in 1891-92, 15,900 bales; in 1890-91, 9,960 bales; in 1889-90, 11,200 bales.

CONSUMPTION AND EXPORTS OF COTTON.

Consumption of Cotton in the United States, and Exports to Europe:

	1897-98	1896-97	1895-96	1894-95	1893-94	1892-93	1891-92	1890-91
Consumption, North.....bales	2,276,000	1,863,000	1,671,000	2,154,000	1,675,000	1,950,000	2,025,000	1,925,000
Consumption, South....."	1,228,000	1,024,000	916,000	853,000	723,000	734,000	682,000	606,000
Consumption, United States .."	3,504,000	2,887,000	2,587,000	3,007,000	2,398,000	2,684,000	2,707,000	2,531,000
Exported to Europe....."	7,532,000	5,968,000	4,646,000	6,720,000	5,231,000	4,403,000	5,865,000	5,790,000

MONTHLY RANGE OF PRICES OF COTTON.

Lowest and highest monthly prices of Middling Cotton, at Cincinnati, in cents per pound, for years indicated:

MONTHS.	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889
January.....	5½@5½	67½@7	7½@8	5½@5½	7½@8½	9½@10	7½@7½	9½@9½	10 @10½	9½@9½
February.....	5½@6	67½@7	7½@8	5½@5½	7½@8½	9½@9½	7 @7½	9½@9½	10½@10½	9½@9½
March.....	5½@6	7½@7½	7½@7½	5½@6	7½@7½	8½@9½	6½@7	9½@9½	10½@11	9½@10
April.....	5½@6½	7½@7½	7½@7½	6 @6½	7½@7½	8 @8½	6½@7½	9 @9½	11 @11½	10 @10½
May.....	6 @6½	7½@7½	7½@7½	6½@7½	7½@7½	7½@7½	7 @7½	9 @9	11½@12	10½@11
June.....	6 @6½	7½@7½	7½@7½	7 @7½	7½@7½	7½@7½	7½@7½	8½@9	12 @12	11 @11
July.....	6 @6½	7½@7½	7 @7½	7 @7	7½@7½	8½@8½	7½@7½	8½@8½	12 @12	11 @11
August.....	6 @6	8½@8½	7 @8	7 @7½	7 @7½	7½@7½	7½@7½	8½@8½	11½@12	11 @11½
September.....	5½@5½	6½@6½	7½@8½	7½@8½	6½@7½	7½@8½	7½@7½	8½@8½	10½@11½	10½@11½
October.....	5½@5½	6 @6	7½@8	8½@9½	5½@6½	8 @8½	7½@8½	8½@8½	9½@10½	9½@10½
November.....	5½@5½	5½@5½	7½@7½	8½@9	5½@5½	7½@8½	8 @10½	7½@8½	9½@9½	9½@10
December.....	5½@5½	5½@5½	6½@7½	7½@8½	5½@5½	7½@7½	9½@10	7½@7½	9½@9½	10 @10
Year.....	5½@6½	5½@8½	6½@8½	5½@9½	5½@8½	7½@10	6½@10½	7½@9½	9½@12	9½@11½

NOTE.—In December, 1898, March, 1896, February and March, 1895, February, March and April, 1894, and November, 1893, prices ranged $\frac{1}{8}$ lower than shown in the table. In November and December, 1898, and May 1894, prices ranged $\frac{1}{8}$ higher than shown.

PRICES OF COOPERAGE.

Range of quotations for Pork Barrels, Whisky Barrels and Lard Tierces, at Cincinnati, representing country and city Cooperage, for years indicated:

KINDS.	1898	1897	1896	1895	1894	1893	1892	1891
Pork Barrels.....	70@ 90	70@ 90	70@ 95	65@ 95	65@1 00	60@1 00	60@ 90	65@ 90
Whisky Barrels.....	1 45@1 60	1 45@1 55	1 45@1 65	1 55@1 65	1 45@1 60	1 45@1 60	1 45@1 60	1 40@1 65
Lard Tierces.....	85@1 10	85@1 10	85@1 20	85@1 20	85@1 15	85@1 15	75@1 20	90@1 20

NOTE.—In 1898 the weekly quotation for Pork Barrels was unchanged during the year, as also for Lard Tierces. For Whisky Barrels the quotation was \$1.45@1.55 until November 22, when it was advanced to \$1.50@1.60, which prevailed to the close of the year.

PRICES OF PEANUTS.

Monthly range of prices of White Tennessee Peanuts (prime to choice), per pound, farmers' stock, at Cincinnati, in years ending December 31:

MONTHS.	1898	1897	1896	MONTHS.	1898	1897	1896
January.....	2¼@2½	2¼@3	3¾@4	July.....	2¼@3	2¼@3½	2¼@3
February.....	2¼@2½	2¼@3	3¾@4	August.....	2¼@3	2¼@3½	2¼@3
March.....	2¼@2½	2¼@3	3¾@4	September.....	2¼@3	2¼@3½	2¼@3
April.....	2¼@2½	2¼@3	2¼@4	October.....	2¼@3	2¼@3½	2¼@3
May.....	2¼@2½	2¼@3	2¼@2¾	November.....	2¼@3	2¼@3½	2¼@3
June.....	2¼@3	2¼@3¾	2¼@2¾	December.....	2¼@3	2¼@2¾	2¼@3

WEEKLY PRICES OF COAL.

Prices of Coal, as indicated, per bushel afloat, and per ton delivered, at Cincinnati, on Tuesdays, in years stated:

DATES.	PITTSBURGH (YOUGHIOGHENY).						KANAWHA.			
	Afloat, bushel.			Delivered, ton.			Afloat, bushel.		Delivered, ton.	
	1898	1897	1896	1898	1897	1896	1898	1897	1896	1897
January 4....	5 1/2	5 1/2	6	\$2 50	\$2 25	\$2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	\$2 50	\$2 25
11....	5 1/2	5 1/2	6	2 50	2 25	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 50	2 25
18....	5 1/2	5 1/2	6	2 50	2 25	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 50	2 25
25....	5 1/2	5 1/2	6	2 50	2 25	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 50	2 25
February 1....	5 1/2	5 1/2	6	2 50	1 90 @ 2 00	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 50	1 90 @ 2 00
8....	5 1/2	5 1/2	6	2 50	1 60	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 50	1 90 @ 2 25
15....	5 1/2	5 1/2	6	2 50	1 75	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 50	1 75 @ 2 25
22....	5 @ 5 1/4	5 1/2	6	2 50	1 75	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 50	2 00 @ 2 25
March 1....	5	5 1/2	5 3/4	2 50	2 00	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 50	2 00 @ 2 25
8....	5	5 1/2	5 3/4	2 50	2 00	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 50	2 00 @ 2 25
15....	5	5 1/2	5 3/4	2 25	2 00	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 25 @ 2 50	2 00 @ 2 25
22....	5	5 1/2	5 3/4	2 25	2 00	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
29....	5	5 1/2	5 3/4	2 25	2 00	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
April 5....	5	5 1/2	5 3/4	2 25	2 00	2 50	4 3/4 @ 5 1/4	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
12....	5 1/2	5 1/2	5 3/4	2 25	2 00	2 50	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
19....	5 1/2	5 1/2	5 3/4	2 25	2 00	2 50	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
26....	6	5 1/2	5 3/4	2 25	2 00	2 50	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
May 3....	6	5 1/2	5 3/4	2 25	2 00	2 50	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
10....	6	5 1/2	5 3/4	2 25	2 00	2 25	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
17....	6	5 1/2	5 3/4	2 25	2 00	2 25	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
24....	6	5 1/2	5 3/4	2 25	2 00	2 25	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
31....	6	5 1/2	5 3/4	2 25	2 00	2 25	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
June 7....	6	5 1/2	5 3/4	2 25	2 00	2 25	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
14....	6	5 1/2	5 3/4	2 25	2 00	2 25	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
21....	6	5 1/2	5 3/4	2 25	2 00	2 25	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
28....	6	5 1/2	5 3/4	2 25	2 00	2 25	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
July 5....	6	5 1/2	5 3/4	2 25	2 00	2 25	5	4 3/4 @ 5 1/4	2 25	2 00 @ 2 25
12....	6	5 1/2	5 3/4	2 25	2 25	2 25	5	5	2 25	2 25
19....	6	5 1/2	5 3/4	2 25	2 25	2 25	5	5	2 25	2 25
26....	6	5 1/2	5 3/4	2 25	2 00 @ 2 25	2 25	5	5 1/2	2 25	2 00 @ 2 25
August 2....	6	5 1/2	5 3/4	2 25	2 00 @ 2 25	2 25	5	5 1/2	2 25	2 00 @ 2 25
9....	6	5 1/2	5 3/4	2 25	2 00 @ 2 25	2 25	5	5 1/2	2 25	2 00 @ 2 25
16....	5 3/4	5 1/2	5 3/4	2 00	2 00 @ 2 25	2 25	4 3/4 @ 5 1/4	5 1/2	2 00 @ 2 25	2 00 @ 2 25
23....	5 3/4	5 1/2	5 3/4	2 00	2 00 @ 2 25	2 25	4 3/4 @ 5 1/4	5 1/2	2 00 @ 2 25	2 00 @ 2 25
September 6....	5 3/4	5 1/2	5 3/4	2 00	2 50	2 25	4 3/4 @ 5 1/4	7	2 00 @ 2 25	2 50
13....	5 3/4	5 1/2	5 3/4	2 00	2 75	2 25	4 3/4 @ 5 1/4	7	2 00 @ 2 25	2 75
20....	5 3/4	5 1/2	5 3/4	2 00	2 75	2 25	4 3/4 @ 5 1/4	7	2 00 @ 2 25	2 75
27....	5 3/4	5 1/2	5 3/4	2 00	2 75	2 25	4 3/4 @ 5 1/4	7	2 00 @ 2 25	2 75
October 4....	5 3/4	5 1/2	5 3/4	2 25	2 75	2 25	4 3/4 @ 5 1/4	7 1/2	2 25	2 75
11....	5 1/2	5 1/2	5 3/4	2 25	2 75	2 25	4 3/4 @ 5 1/4	7 1/2	2 25	2 75
18....	5 1/2	5 1/2	5 3/4	2 25	2 75	2 25	4 3/4 @ 5 1/4	7 1/2	2 25	2 75
25....	5 1/2	5 1/2	5 3/4	2 25	2 75	2 25	4 3/4 @ 5 1/4	7 1/2	2 25	2 75
November 1....	5 1/2	5 1/2	5 3/4	2 25	3 00	2 25	4 3/4 @ 5 1/4	.....	2 25	3 00
8....	5 1/2	5 1/2	5 3/4	2 25	3 00	2 25	4 3/4 @ 5 1/4	.....	2 25	3 00
15....	5 1/2	5 1/2	5 3/4	2 25	3 00	2 25	4 3/4 @ 5 1/4	8	2 25	3 00
22....	5 1/2	5 1/2	5 3/4	2 25	2 75	2 25	4 3/4 @ 5 1/4	.....	2 25	2 75
29....	5 1/2	5 1/2	5 3/4	2 25	2 75	2 25	4 3/4 @ 5 1/4	.....	2 25	2 75
December 6....	5 1/2	5 1/2	5 3/4	2 25	2 50	2 25	4 3/4 @ 5 1/4	5 1/4 @ 5 1/4	2 25	2 50
13....	5 1/2	5 1/2	5 3/4	2 25	2 50	2 25	4 3/4 @ 5 1/4	5 1/4 @ 5 1/4	2 25	2 50
20....	5 1/2 @ 5 3/4	5 1/2	5 3/4	2 25	2 50	2 25	4 3/4 @ 5 1/4	5 1/4	2 25	2 50
27....	5 1/2 @ 5 3/4	5 1/2 @ 5 3/4	5 3/4	2 25	2 50	2 25	4 3/4 @ 5 1/4	5 1/4 @ 5 1/4	2 25	2 50

PRODUCTION OF COAL.

Annual production of Coal in the United States, in tons of 2,240 pounds:

KINDS.	1897	1896	1895	1894	1893	1892
Bituminous.....	131,955,000	122,893,000	120,641,000	106,090,000	114,680,000	118,207,000
Anthracite.....	46,814,000	48,523,000	51,785,000	46,358,000	48,185,000	46,908,000
Total, tons.....	178,769,000	171,416,000	172,426,000	152,448,000	162,815,000	160,115,000

AVERAGE ANNUAL PRICES OF COAL.

Average annual prices for the various kinds of Coal, per bushel, or its equivalent, at Cincinnati, for commercial and calendar years indicated:

YEARS.	AFLOAT.								
	Pittsburgh.	Ashland.	Ohio River.	Hocking Valley.	Raymond City.	Muskingum Valley.	Kanawha.	Winifrede.	Cannel.
1882-83.....	8.32	6.40	5.86	\$9.00	7.28	\$8.88	7.96	....	16.00
1883-84.....	8.11	....	5.63	\$9.13	7.17	\$9.13	7.54	....	....
1884-85.....	8.04	6.29	5.44	....	7.14	....	7.43	....	....
1885-86.....	6.58	5.44	4.98	\$7.37	6.23	\$7.37	6.24	....	....
1886-87.....	7.55	6.37	5.83	\$8.03	7.35	\$8.03	7.26	7.15	....
1887-88.....	10.01	7.96	7.33	\$9.98	9.75	\$9.98	9.75	9.75	....
1888-89.....	6.71	....	4.78	....	6.10	....	6.10	5.97	....
1889-90.....	6.78	....	5.16	....	6.33	....	6.37	6.33	....
1890-91.....	7.28	....	....	....	6.75	....	6.75	....	....
1891-92.....	7.63	6.30	....	....	7.09	....	7.09	....	....
1892.....	7.49	....	....	....	....	....	....	....	....
1893.....	7.58	....	....	....	7.08	....	7.20	....	....
1894.....	6.84	....	....	....	....	....	6.69	....	....
1895.....	6.00	....	....	....	....	....	5.42	....	....
1896.....	5.73	....	....	....	....	....	5.28	....	....
1897.....	5.70	....	....	....	....	....	4.91	....	....
1898.....	5.66	....	....	....	....	....	4.89	....	....

YEARS.	DELIVERED.								
	Pittsburgh.	Ashland.	Ohio River.	Hocking Valley.	Raymond City.	Muskingum Valley.	Kanawha.	Winifrede.	Cannel.
1882-83.....	12.62	10.62	10.62	11.06	11.62	\$10.72	12.26	....	19.11
1883-84.....	11.85	....	10.16	11.34	11.05	\$11.34	11.65	....	17.01
1884-85.....	10.91	9.50	9.31	....	10.72	....	10.73	....	15.97
1885-86.....	10.05	9.09	8.54	9.42	9.64	9.42	9.65	....	15.16
1886-87.....	11.04	9.73	9.67	10.03	10.82	10.03	10.86	10.55	15.96
1887-88.....	13.96	11.77	11.66	11.82	13.00	11.82	13.27	13.25	....
1888-89.....	9.95	....	8.63	....	9.64	....	9.64	9.48	12.73
1889-90.....	9.69	....	8.86	....	9.69	....	9.67	9.58	14.28
1890-91.....	10.24	....	....	....	10.24	....	10.24	10.17	19.80
1891-92.....	10.33	8.64	....	....	10.33	....	10.33	10.11	....
1892.....	10.36	....	....	....	10.36	....	10.36	10.18	....
1893.....	11.04	....	....	....	11.07	....	10.57	10.67	....
1894.....	9.11	....	....	....	....	....	9.18	....	....
1895.....	9.00	....	....	....	....	....	8.15	....	....
1896.....	8.21	....	....	....	....	....	8.13	....	....
1897.....	8.10	....	....	....	....	....	8.15	....	....
1898.....	8.05	....	....	....	....	....	8.00	....	....

* On cars.

† Nominal. Very little in the market.

THE WORLD'S PRODUCTION OF COAL.

Detailed statement of the World's yearly output of Coal, in long tons:

COUNTRIES.	1897	1896	1895	1894	1893
Great Britain.....	202,119,000	195,352,000	189,661,000	188,277,000	164,326,000
United States.....	178,769,000	171,416,000	172,426,000	152,448,000	162,815,000
Germany.....	118,545,000	112,138,000	103,876,000	83,870,000	90,000,000
Other Countries.....	116,000,000	112,000,000	97,000,000	90,000,000	90,000,000
Total, long tons.....	615,433,000	590,906,000	562,963,000	514,595,000	507,141,000

AVERAGE ANNUAL PRICES OF COAL.

Average annual prices for the various kinds of Coal, per ton of 2,000 pounds, or its equivalent, at Cincinnati, for commercial and calendar years indicated:

YEARS.	AFLOAT.									
	Pittsburgh.	Ashland.	Ohio River.	Hocking Valley.	Raymond City.	Muskingum Valley.	Kanawha.	Winifrede.	Cannel.	Anthracite.
1884-85.....	\$2 23	\$1 75	\$1 51	.....	\$1 96	.....	\$2 06	.....	.....	.....
1885-86.....	1 83	1 51	1 38	.....	1 73	.....	1 73	.....	.....	.....
1886-87.....	2 10	1 77	1 62	.....	2 04	.....	2 01	\$1 98	.....	.....
1887-88.....	2 78	2 21	2 05	.....	2 71	.....	2 71	2 71	.....	.....
1888-89.....	1 86	.....	1 32	.....	1 69	.....	1 69	1 66	.....	.....
1889-90.....	1 88	.....	1 43	.....	1 76	.....	1 77	1 76	.....	.....
1890-91.....	2 02	.....	.....	.....	1 87	.....	1 87	.....	.....	.....
1891-92.....	2 12	1 75	.....	.....	1 97	.....	1 97	.....	.....	.....
1892.....	2 08	.....	.....	.....	.....	.....	.....	.....	.....	.....
1893.....	2 10	.....	.....	.....	1 96	.....	2 00	.....	.....	.....
1894.....	1 77	.....	.....	.....	.....	.....	1 85	.....	.....	.....
1895.....	1 70	.....	.....	.....	.....	.....	1 75	.....	.....	.....
1896.....	1 65	.....	.....	.....	.....	.....	1 65	.....	.....	.....
1897.....	1 57	.....	.....	.....	.....	.....	1 64	.....	.....	.....
1898.....	1 55	.....	.....	.....	.....	.....	1 64	.....	.....	.....

YEARS.	DELIVERED.									
	Pittsburgh.	Ashland.	Ohio River.	Hocking Valley.	Raymond City.	Muskingum Valley.	Kanawha.	Winifrede.	Cannel.	Anthracite.
1881-85.....	\$3 03	\$2 64	\$2 58	.....	\$2 98	.....	\$2 98	.....	\$4 48	\$7 05
1885-86.....	2 79	2 52	2 37	.....	2 68	.....	2 68	.....	4 21	6 62
1886-87.....	3 06	2 70	2 68	.....	3 00	.....	3 01	\$2 98	4 44	6 78
1887-88.....	3 88	3 27	3 24	.....	3 61	.....	3 68	3 68	.....	7 63
1888-89.....	2 76	.....	2 40	.....	2 68	.....	2 68	2 68	3 55	7 00
1889-90.....	2 69	.....	2 46	.....	2 69	.....	2 69	2 68	3 97	6 46
1890-91.....	2 84	.....	.....	.....	2 84	.....	2 84	2 82	5 50	6 36
1891-92.....	2 87	2 40	.....	.....	2 87	.....	2 87	2 81	.....	6 41
1892.....	2 88	.....	.....	.....	2 88	.....	2 88	2 83	.....	6 79
1893.....	3 07	.....	.....	.....	3 08	.....	2 94	2 97	.....	7 23
1894.....	2 53	.....	.....	.....	.....	.....	2 55	.....	.....	6 35
1895.....	2 51	.....	.....	.....	.....	.....	2 49	.....	.....	6 16
1896.....	2 34	.....	.....	.....	.....	.....	2 34	.....	.....	6 44
1897.....	2 25	.....	.....	.....	.....	.....	2 26	.....	.....	6 42
1898.....	2 23	.....	.....	.....	.....	.....	2 27	.....	.....	6 20

* On cars.

† Nominal. Very little in the market.

AVERAGE ANNUAL PRICES OF COKE.

Average annual prices of Coke, delivered, at Cincinnati, in ten years:

YEARS.	City Manu- factured.	Gas House.	Connel- ville.	Crushed.	YEARS.	City Manu- factured.	Gas House.	Connel- ville.	Crushed.
	Bushel.	Bushel.	Ton.	Bushel.		Bushel.	Bushel.	Ton.	Bushel.
1889-90.....	7.98	8.75	\$5 50	9.71	1894.....	8.20	9.00	\$6 50	10.00
1890-91.....	8.44	8.00	6 20	8.92	1895.....	8.00	8.00	6 50	9.00
1891-92.....	9.00	8.00	6 00	9.00	1896.....	8.00	8.00	5 80	9.00
1892.....	9.00	8.00	6 13	9.00	1897.....	8.00	8.00	5 27	9.00
1893.....	10.00	9.00	6 50	10.00	1898.....	8.03	6.73	5 25	7.50

ANNUAL RECEIPTS OF COAL.

Annual receipts of Coal, in bushels, at Cincinnati, for years indicated, according to reports of gaugers, private returns, and records of Chamber of Commerce:

YEARS.	PITTSBURGH. (Youghloheny)	OHIO RIVER.	KANAWHA. (By River)	OTHER KINDS. (By Railroad)	ANTHRACITE.	TOTALS.	EQUAL TONS.
1890-91.....	23,202,084	3,219,618	10,715,459	2,336,752	770,525	40,244,438	1,492,817
1891-92.....	37,807,961	3,638,217	13,950,802	3,090,715	779,925	59,267,620	2,197,407
1892-93.....	33,895,064	3,490,155	13,260,347	2,997,216	977,250	54,620,082	2,025,859
1893-94.....	32,239,473	3,249,698	15,926,743	8,910,795	1,085,350	56,412,059	2,092,551
1894-95.....	32,286,133	3,321,852	14,588,573	2,683,864	1,257,900	54,138,822	2,008,850
1895-96.....	34,933,542	1,145,463	17,329,349	2,720,250	1,267,925	57,416,529	2,130,354
1896-97.....	37,701,094	467,938	20,167,875	3,693,850	1,314,775	63,845,532	2,350,026
1897-98.....	41,180,713	1,559,456	20,926,596	5,710,649	1,328,225	70,705,639	2,551,415
1898-99.....	36,677,974	557,069	23,761,853	3,075,000	1,020,525	65,092,421	2,348,055
1899-90.....	42,601,615	454,385	19,221,196	4,709,775	1,001,175	67,988,146	2,452,253
1890-91.....	43,254,460	1,494,781	19,115,172	7,362,698	1,118,671	72,345,782	2,608,923
1891-92.....	41,299,170	704,821	18,865,325	13,311,416	1,207,584	75,388,316	2,718,809
1892.....	42,272,348	768,588	19,214,704	13,335,006	1,268,170	76,858,816	2,771,989
1893.....	29,643,562	405,202	24,971,261	25,832,374	759,626	80,612,025	2,906,071
1894.....	40,156,667	158,334	16,398,039	19,083,527	661,548	76,458,115	2,755,137
1895.....	26,675,823	14,400	15,106,095	27,119,823	1,227,000	70,143,141	2,530,061
1896.....	36,696,759	130,217	22,015,133	19,676,000	1,171,000	79,689,109	2,873,492
1897.....	35,040,790	60,217	17,941,769	24,468,000	1,251,250	78,762,026	2,840,437
1898.....	41,271,142	95,590	19,949,098	21,679,000	948,125	83,942,956	3,025,738

NOTE.—Since 1890-91 "other kinds" represent Kanawha Coal largely; in 1898, 15,885,000 bushels, or 73 per cent. Cannel Coal included in Ohio River. Shipments of Coal for 1898, 14,220,879 bushels.

Receipts of Coke in 1898, 2,887,916 bushels; locally manufactured, 3,949,643; shipments, 2,571,000 bushels.

MOVEMENT OF IRON AND STEEL.

Receipts and shipments of Iron and Steel of all kinds, at Cincinnati:

YEARS.	RECEIPTS.				SHIPMENTS.			
	Manufactured Iron and Steel.			Pig Iron.	Manufactured Iron and Steel.			Pig Iron.
	Tons.	Pieces.	Bundles.	Tons.	Tons.	Pieces.	Bundles.	Tons.
1873-74.....	44,237	159,850	68,057	97,815	30,617	74,048	105,875	60,356
1874-75.....	39,749	105,606	73,733	117,225	24,952	96,944	172,327	78,610
1875-76.....	49,502	168,215	156,821	137,646	32,640	80,845	67,536	124,897
1876-77.....	37,289	404,769	182,870	129,194	29,183	268,466	119,746	113,964
1877-78.....	43,787	451,327	205,912	125,912	41,655	321,458	191,101	102,021
1878-79.....	68,528	162,287	88,149	212,281	62,980	142,465	85,685	187,699
1879-80.....	144,013	79,970	61,566	248,515	90,453	206,732	114,933	205,234
1880-81.....	121,914	12,932	18,105	334,702	95,338	57,352	47,968	295,203
1881-82.....	99,929	.....	.....	386,510	89,571	.....	.....	331,153
1882-83.....	106,457	.....	.....	417,635	115,597	.....	.....	382,867
1883-84.....	108,422	.....	.....	427,934	112,610	.....	.....	386,153
1884-85.....	112,109	.....	.....	406,908	89,745	.....	.....	363,663
1885-86.....	137,203	.....	.....	511,426	104,311	.....	.....	461,379
1886-87.....	155,885	.....	.....	667,773	139,393	.....	.....	604,964
1887-88.....	150,747	.....	.....	672,758	124,736	.....	.....	593,306
1888-89.....	147,964	.....	.....	710,683	123,681	.....	.....	618,716
1889-90.....	192,971	.....	.....	820,080	161,915	.....	.....	719,462
1890-91.....	174,512	.....	.....	948,428	164,262	.....	.....	819,937
1891-92.....	193,777	.....	.....	1,102,331	177,777	.....	.....	976,699
1892.....	190,216	.....	.....	1,103,578	174,693	.....	.....	980,294
1893.....	134,029	.....	.....	945,050	109,868	.....	.....	848,318
1894.....	121,229	.....	.....	935,570	89,123	.....	.....	831,222
1895.....	174,194	.....	.....	1,285,936	127,174	.....	.....	1,171,393
1896.....	127,028	.....	.....	1,237,740	97,486	.....	.....	1,170,533
1897.....	177,291	.....	.....	1,445,416	138,342	.....	.....	1,344,843
1898.....	176,249	.....	.....	1,732,630	147,110	.....	.....	1,613,086

NOTE.—Pig Iron sold here, but shipped directly from the furnaces or places of storage to destination, without coming to Cincinnati, is embraced in the Pig Iron figures since 1873-74.

PRICES OF PIG IRON.

Prices of the various kinds of Pig Iron, per ton, at Cincinnati, at the close of December, as indicated:

KINDS.	1898	1897	KINDS.	1898	1897
SOUTHERN COKE.			CHARCOAL.		
No. 1 Foundry.....	\$10 25@10 50	\$9 75@10 25	Hanging Rock, No. 1.....	\$15 00@16 00	\$14 50@15 50
No. 2 Foundry.....	10 00@10 25	9 50@ 9 75	Tennessee, No. 1.....	11 75@12 50	12 50@13 00
No. 3 Foundry.....	9 50@10 00	9 00@ 9 45	Jackson Co. Silvery, No. 1.	12 00@12 50	12 50@13 00
Gray Forge.....	9 00@ 9 50	8 75@ 9 25	CARWHEEL.		
Mottled.....	9 00@ 9 50	8 75@ 9 25	Standard Alabama Car-	14 25	15 00@15 25
No. 1 Soft.....	10 25@10 50	9 75@10 00	wheel		
No. 2 Soft.....	10 00@10 25	9 25@ 9 75	Lake Superior Carwheel	14 00	14 50@15 00
LAKE ORE COKE.			and Malleable.....		
No. 1 Lake Superior.....	11 00@11 25	11 00@11 50			
No. 2 Lake Superior.....	10 50@10 75	10 50@10 75			

ANNUAL PRICES OF PIG IRON.

Average annual prices of Pig Iron, per ton, at Cincinnati, for years indicated:

YEARS.	No. 1 hot-blast charcoal iron.	No. 1 stone coal iron.	No. 1 car-wheel iron.	YEARS.	No. 1 hot-blast charcoal iron.	No. 1 stone coal iron.	No. 1 car-wheel iron.
1881-82.....	\$28 45	\$25 96	\$36 50	1889-90.....	\$21 69	\$17 65	\$23 47
1882-83.....	25 68	22 82	30 42	1890-91.....	21 18	16 35	22 53
1883-84.....	23 43	20 40	28 46	1891-92.....	20 28	15 62	19 29
1884-85.....	20 93	17 33	26 41	1892.....	19 75	15 15	18 85
1885-86.....	20 46	17 96	25 50	1893.....	18 45	14 00	18 50
1886-87.....	22 95	20 54	28 31	1894.....	17 80	11 60	18 50
1887-88.....	22 64	18 98	25 07	1895.....	15 90	12 85	15 95
1888-89.....	21 47	16 97	23 25	1896.....	15 20	12 50	15 55

YEARS.	Southern Coke No. 2 Foundry.		Lake Ore Coke No. 2 Foundry.		Hanging Rock Charcoal No. 1.	
	Range.	Average.	Range.	Average.	Range.	Average.
1896.....	\$9 25@11 50	\$10 35	\$11 50@14 40	\$12 50	\$15 00@17 00	\$16 00
1897.....	8 50@10 25	9 40	10 50@12 00	10 80	14 25@16 25	15 00
1898.....	9 25@10 25	9 65	10 25@10 75	10 50	14 00@15 50	14 95

SALES OF PIG IRON.

Annual sales of Pig Iron, at Cincinnati (including direct shipments), and approximate value of the same, in years ending August 31 and December 31:

YEARS.	Tons Sold.	Value.	YEARS.	Tons Sold.	Value.
1883-84.....	427,900	\$9,307,000	1891-92.....	1,102,300	\$20,117,000
1884-85.....	407,000	7,668,000	1892.....	1,103,578	19,548,500
1885-86.....	511,400	9,737,000	1893.....	945,050	15,830,000
1886-87.....	667,800	14,514,000	1894.....	935,570	12,160,000
1887-88.....	672,700	13,563,000	1895.....	1,285,900	17,360,000
1888-89.....	740,700	13,465,000	1896.....	1,237,700	15,475,000
1889-90.....	820,100	15,376,000	1897.....	1,445,400	16,625,000
1890-91.....	948,400	17,783,000	1898.....	1,732,630	19,925,000

LOW AND HIGH PRICES OF PIG IRON.

Lowest and highest quotations of No. 1 Hotblast Charcoal Iron, per ton, at Cincinnati, and months for the same, in years ending August 31 and December 31:

YEARS.	LOWEST.		HIGHEST.	
	Quotations.	Months.	Quotations.	Months.
1869-70...	\$37 00	June, July, August.....	\$50 00	September, October, November.
1870-71...	35 00	August.....	37 50	Sept., Oct., Nov., Dec.
1871-72...	35 00@36 00	September.....	57 00	August
1872-73...	47 00@49 00	August.....	58 00@59 00	September, October, November.
1873-74...	38 00@34 00	July, August.....	47 00@49 00	September.
1874-75...	27 00@28 00	Dec., Jan., Feb., Aug.	33 00@34 00	September.
1875-76...	24 00@25 00	Feb., Mar., Apr., May, Jun., Jul., Aug.	27 00@28 00	September.
1876-77...	23 00@24 00	Oct., Nov., Dec., Jan., Aug.	24 00@25 00	Sep., Oct., Apr., May, June, July, Aug.
1877-78...	21 00@22 00	August.....	23 00@24 00	Sep., Oct., Nov., Dec., Jan., Feb.
1878-79...	20 00@21 00	June, July.....	27 00@28 00	August.
1879-80...	27 00@28 00	September, May, June, July.....	43 00@44 00	February.
1880-81...	28 00@27 00	{ Dec., Jan., Feb., Mar., April, May, June, July, Aug. }	30 00	September.
1881-82...	26 00@27 00	September.....	29 00@30 00	January, February, March, April.
1882-83...	24 50@25 00	May, June, July, August.....	27 50@28 00	September, October.
1883-84...	22 00@23 25	May, June, July, August.....	24 50@25 00	September.
1884-85...	18 00@19 00	June, July, August.....	22 00@23 25	September.
1885-86...	18 00@19 00	September.....	20 00@22 00	Dec., Jan., Feb., March, April, May.
1886-87...	20 00@21 00	September, October.....	24 00@25 50	January, February, March, April.
1887-88...	20 50@21 50	June, July, August.....	24 00@24 50	September, October.
1888-89...	20 00@22 00	August.....	21 00@22 00	Each month in the year.
1889-90...	20 00@22 00	September, October, November.....	22 00@23 00	December, January, February, Mar.
1890-91...	20 00@22 00	January to August, inclusive.....	21 00@22 00	Sept., Oct., Nov., Dec., Jan.
1891-92...	19 00@20 00	August.....	20 00@22 00	September, October, November.
1892...	18 50@19 50	October, November, December.....	19 75@21 00	January, February.
1893...	17 75@18 25	June to December, inclusive.....	18 50@19 50	January to April, inclusive.
1894...	17 50@18 00	March to December.....	17 75@18 25	January to March.
1895...	15 50@15 75	March to June.....	16 25@17 00	August, September, October.
1896...	15 00@16 50	November, December.....	16 00@17 00	January to June, inclusive.

Lowest and highest quotations of No. 1 Hanging Rock Charcoal Iron, per ton, at Cincinnati, for years indicated:

YEARS.	LOWEST.		HIGHEST.	
	Quotations.	Months.	Quotations.	Months.
1895.....	\$15 50@15 75	May, June.....	\$16 00@18 25	January, February.
1896.....	15 00@16 00	November, December.....	16 00@17 00	May, June.
1897.....	14 25@15 50	September to December, inclusive..	15 00@16 25	January.
1898.....	14 00@15 50	June, July.....	14 50@15 50	Jan. to May, and Aug. to Dec., Inc.

PRICES OF ANTHRACITE PIG IRON.

Average annual prices of Anthracite Foundry Pig Iron, at Philadelphia, per ton of 2,240 pounds:

1871.....	\$35 12	1878.....	\$17 63	1885.....	\$18 00	1892.....	\$15 75
1872.....	48 88	1879.....	21 50	1886.....	18 71	1893.....	14 62
1873.....	42 75	1880.....	28 50	1887.....	20 92	1894.....	12 06
1874.....	30 25	1881.....	25 12	1888.....	18 88	1895.....	13 10
1875.....	25 50	1882.....	23 75	1889.....	17 75	1896.....	12 06
1876.....	22 25	1883.....	22 38	1890.....	18 40	1897.....	12 10
1877.....	18 88	1884.....	19 88	1891.....	17 52	1898.....	11 06

LOW AND HIGH PRICES OF PIG IRON.

Lowest and highest quotations of Strong No. 1 Stone Coal Iron, per ton, at Cincinnati, and months for the same, in years ending August 31 and December 31 :

YEARS.	LOWEST.		HIGHEST.	
	Quotations.	Months.	Quotations.	Months.
1875-76...	\$23 00@24 00	Feb., Mar., Apr., May, Jun., July, Aug.	\$26 00@27 00	September.
1876-77...	22 00@23 00	December, August.....	23 00@24 00	{ Sept., Oct., Jan., Feb., March, April, May, June, July, Aug.
1877-78...	19 00@20 00	August.....	22 00@23 00	Sept., Oct., Nov., Dec., Jan.
1878-79...	19 00@20 00	Sept., Oct., Nov., Dec., Jan., Feb....	24 00@25 00	August.
1879-80...	24 00@25 00	September.....	40 00@41 00	January, February.
1880-81...	23 00@24 00	{ Oct., Nov., Dec., Jan., Feb., Mar., April, May, June, July, Aug.... }	24 00@26 00	September.
1881-82...	23 00@25 00	June, July.....	27 00@28 00	Nov., Dec., Jan., Feb., March, April.
1882-83...	21 00@22 00	June, July, August.....	23 00@25 00	September, October
1883-84...	18 00@19 00	July, August.....	21 00@22 00	September.
1884-85...	15 50@16 50	August.....	18 00@19 00	September, October, November.
1885-86...	15 50@16 50	September.....	18 00@20 00	January, February, March.
1886-87...	17 00@18 50	September, October.....	21 50@23 00	January, February, March.
1887-88...	16 00@16 50	June, July, August.....	21 00@21 50	September.
1888-89...	14 75@17 50	May, June, July, August.....	17 50@19 00	September.
1889-90...	15 00@18 50	April, May.....	19 00@20 50	January.
1890-91...	14 50@17 50	January, February.....	15 25@18 50	October.
1891-92...	13 25@16 00	August.....	15 00@17 50	November.
1892...	13 25@16 00	August, September, October.....	14 75@17 00	January.
1893...	12 25@14 25	December.....	13 75@15 50	January.
1894...	11 00@12 25	April, May, June, July.....	12 25@14 25	January.
1895...	11 65@12 00	March, April, May, June.....	16 40	October.
1896...	12 00@12 50	September to December, inclusive..	14 00@15 00	January to April, inclusive.

Lowest and highest quotations of No. 2 Southern Coke Foundry Iron, per ton, at Cincinnati, for years indicated :

YEARS.	LOWEST.		HIGHEST.	
	Quotations.	Months.	Quotations.	Months.
1896.....	\$9 00@9 25	March, April.....	\$12 75	October, November.
1896.....	9 25@9 75	September.....	11 50	January.
1897.....	8 50@9 75	June.....	10 00@10 25	January.
1898.....	9 25@9 50	July, August.....	9 75@10 25	December.

PRODUCTION OF CRUDE STEEL.

Steel Ingots and Castings produced in the United States, in tons of 2,240 pounds, for years indicated :

KINDS.	1896	1897	1896	1895	1894	1893
Bessemer.....	6,609,017	5,475,315	3,919,906	4,909,128	3,571,313	3,215,686
Open Hearth.....	2,280,292	1,608,671	1,298,700	1,137,182	784,996	737,890
Crucible.....	89,747	69,859	60,689	67,666	51,702	68,613
All others.....	3,801	3,012	2,394	858	4,081	2,806
Total Crude Steel, tons....	8,982,857	7,156,957	5,281,689	6,114,834	4,412,082	4,019,995

MONTHLY PRICES OF PIG IRON.

Range of monthly prices of Southern Coke, Lake Ore Coke and Hanging Rock Charcoal Pig Iron, per ton, at Cincinnati, in years indicated:

MONTHS.	SOUTHERN COKE, No. 2 FOUNDRY.		LAKE ORE COKE, No. 2 FOUNDRY.		HANGING ROCK CHARCOAL, No. 1.	
	1896	1897	1896	1897	1896	1897
January.....	\$9 50@ 9 75	\$10 00@10 25	\$10 50@10 75	\$11 50@12 00	\$14 50@15 50	\$15 00@16 25
February.....	9 50@ 9 75	9 75@10 25	10 50@10 75	11 00@12 00	14 50@15 50	14 75@16 00
March.....	9 50@ 9 75	9 25@10 00	10 50@10 75	10 00@11 50	14 50@15 50	14 60@16 00
April.....	9 50@ 9 75	9 25@ 9 50	10 50@10 75	10 00@11 00	14 50@15 50	14 50@14 75
May.....	9 50@ 9 75	8 50@ 9 50	10 50@10 75	10 50@11 00	14 50@15 50	14 50@15 50
June.....	9 25@ 9 75	8 50@ 8 75	10 50@10 75	10 75@11 00	14 00@15 50	14 50@15 50
July.....	9 25@ 9 50	8 75@ 9 00	10 25@10 75	10 50@11 00	14 00@15 50	14 50@15 50
August.....	9 25@ 9 50	9 00	10 25@10 50	10 50@10 75	14 50@15 50	14 50@15 50
September.....	9 25@10 00	9 00@ 9 75	10 25@10 50	10 50@10 75	14 50@15 50	14 25@15 50
October.....	9 75@10 00	9 75	10 25@10 50	10 50@10 75	14 50@15 50	14 25@15 50
November.....	9 75@10 00	9 50@ 9 75	10 25@10 50	10 50@10 75	14 50@15 50	14 25@15 50
December.....	9 75@10 25	9 50@ 9 75	10 25@10 75	10 50@10 75	14 50@15 50	14 25@15 50

PIG IRON PRODUCTION.

The following statement shows the production of Pig Iron in States immediately tributary to Cincinnati, and totals for the entire country, the figures representing long tons of 2,240 pounds, in years indicated:

STATES.	1896	1897	1898	1899	1900	1901
Alabama.....	1,033,676	922,170	854,667	592,392	726,888	915,296
Georgia.....	13,762	15,593	31,034	40,268	39,675	9,960
Illinois.....	1,865,898	925,239	1,006,091	604,795	405,261	949,450
Indiana.....					5,567	7,700
Kentucky.....	100,724	70,660	63,780	33,854	47,501	56,548
Michigan.....	147,640	149,511	91,222	95,171	117,538	184,421
Missouri.....	141,010	12,548	27,518	6,522	32,360	57,020
Ohio.....	1,986,358	1,196,326	1,463,789	900,029	875,265	1,221,913
Tennessee.....	263,439	248,338	248,129	212,773	207,915	300,081
West Virginia.....	192,699	108,569	141,968	80,781	81,591	154,793
Wisconsin.....	172,781	158,484	148,400	91,595	131,772	174,961
Total, tons.....	5,417,987	3,807,438	4,076,598	2,658,180	2,671,833	4,082,133
All Other.....	6,355,947	4,815,689	5,369,710	3,999,208	4,458,169	5,124,867
Total, United States.....	11,773,934	8,623,127	9,446,308	6,657,388	7,124,502	9,157,000

Total production of Pig Iron in the United States, the figures representing net tons, for years indicated:

1881.....	4,641,564	1887.....	7,187,206	1893.....	7,979,442
1882.....	5,178,122	1888.....	7,268,507	1894.....	7,456,274
1883.....	5,146,972	1889.....	8,516,079	1895.....	10,579,865
1884.....	4,589,613	1890.....	10,307,027	1896.....	9,657,902
1885.....	4,529,869	1891.....	9,273,154	1897.....	10,811,001
1886.....	6,365,328	1892.....	10,255,840	1898.....	13,186,806

MOVEMENT OF TOBACCO.

Yearly movement of Leaf and Manufactured Tobacco, at Cincinnati:

RECEIPTS.				SHIPMENTS.			RECEIPTS.				SHIPMENTS.		
YEARS.	Leaf.		Manufactured packages.	Leaf.		Manufactured packages.	YEARS.	Leaf.		Manufactured packages.	Leaf.		Manufactured packages.
	Hhds.	Cases and bales.		Hhds.	Cases and bales.			Hhds.	Cases and bales.		Hhds.	Cases and bales.	
1853-54.	8,744	3,118	30,235	9,353	3,370	30,741	1876-77.	71,217	17,423	190,445	68,759	11,700	365,148
1854-55.	5,209	2,312	24,802	4,968	3,307	26,077	1877-78.	88,280	16,970	195,572	85,049	9,984	422,661
1855-56.	5,702	2,129	33,924	5,005	3,075	27,745	1878-79.	78,137	15,932	263,707	69,220	8,477	531,705
1856-57.	4,837	2,663	40,994	4,054	5,823	34,298	1879-80.	88,965	17,813	268,316	79,101	12,368	496,094
1857-58.	4,476	4,603	33,745	4,588	5,798	32,279	1880-81.	100,626	20,770	228,432	91,413	12,974	414,681
1858-59.	5,328	6,871	56,330	4,493	5,598	45,030	1881-82.	81,519	29,113	279,625	74,764	13,184	399,336
1859-60.	6,261	7,239	49,552	6,124	4,074	49,882	1882-83.	90,150	24,170	264,141	90,720	13,252	369,448
1860-61.	14,148	7,001	35,455	14,232	3,971	42,141	1883-84.	95,496	25,322	196,653	90,895	15,463	350,948
1861-62.	31,914	13,147	37,813	27,955	7,928	75,968	1884-85.	114,780	19,488	213,606	110,134	10,328	335,058
1862-63.	33,261	6,981	31,683	29,736	6,492	65,457	1885-86.	108,341	22,336	253,536	101,447	10,623	313,614
1863-64.	53,769	14,669	50,063	48,277	22,263	82,081	1886-87.	106,260	26,559	357,312	96,595	14,179	392,608
1864-65.	54,359	7,447	22,807	51,869	12,971	45,955	1887-88.	75,217	20,232	486,325	77,896	9,128	388,353
1865-66.	43,943	7,754	39,296	40,665	10,776	51,292	1888-89.	98,565	21,177	531,840	92,806	11,760	350,610
1866-67.	64,350	424	37,796	57,069	13,493	45,587	1889-90.	114,331	27,007	518,136	109,048	13,078	369,338
1867-68.	42,892	3,636	24,607	37,502	9,068	36,290	1890-91.	124,760	25,571	381,287	126,458	12,803	363,442
1868-69.	39,978	4,753	26,545	36,810	6,143	36,862	1891-92.	130,783	29,726	237,669	130,861	21,068	247,905
1869-70.	46,563	9,961	53,961	42,538	6,199	88,149	1892-93.	129,259	30,157	201,847	128,162	19,910	207,590
1870-71.	56,283	9,083	61,497	50,541	2,493	110,652	1893-94.	97,646	31,602	167,616	97,472	17,586	170,629
1871-72.	45,877	11,176	59,535	39,566	1,738	146,771	1894-95.	129,521	35,663	153,914	121,517	14,822	160,470
1872-73.	61,876	5,278	89,650	59,169	4,897	174,749	1895-96.	112,033	30,268	123,327	100,781	10,212	149,948
1873-74.	73,093	4,253	123,714	66,094	4,365	255,210	1896-97.	84,223	28,349	139,562	86,678	7,671	148,680
1874-75.	45,234	10,915	114,925	43,249	8,776	217,392	1897-98.	99,163	32,566	155,065	89,660	10,004	153,339
1875-76.	61,398	13,230	150,336	59,103	12,245	297,960	1898-99.	70,705	34,187	110,469	72,239	9,413	118,115

NOTE.—The foregoing represents commercial years to 1891-92, calendar years subsequently.

TOTAL TOBACCO MANUFACTURE.

Quantity of Chewing and Smoking Tobacco, representing pounds, manufactured in Cincinnati, Covington and Newport, respectively, together with totals:

YEARS.	CHEWING TOBACCO.			SMOKING TOBACCO.		
	CINCINNATI.	COVINGTON AND NEWPORT.	TOTAL.	CINCINNATI.	COVINGTON AND NEWPORT.	TOTAL.
1880-81.	2,353,983½	2,348,176	4,702,159½	1,630,017½	291,465	1,921,482½
1881-82.	1,794,414½	2,657,901	4,452,315½	1,548,288½	515,862	2,064,150½
1882-83.	853,522½	3,077,337	3,930,859½	910,930½	866,806½	1,777,736½
1883-84.	1,180,091½	3,529,091	4,709,182½	874,013½	613,692	1,487,705½
1884-85.	834,817½	3,686,577	4,521,395½	900,899½	297,290½	1,198,190
1885-86.	744,851	3,442,683½	4,187,534½	849,458	230,947	1,080,405
1886-87.	563,682½	2,598,827½	3,162,510	788,313½	249,827	1,038,140½
1887-88.	273,942½	2,033,516½	2,307,458½	780,328	195,484	975,812
1888-89.	241,240½	1,417,587	1,658,827½	870,165½	140,201	1,010,366½
1889-90.	59,324½	1,207,822	1,267,146½	886,912½	119,456	1,006,368½
1890-91.	77,418½	1,584,749	1,662,167½	864,223½	156,733	1,020,956½
1891-92.	94,337	1,894,955	1,989,292	987,577½	187,413	1,174,990½
1892-93.	90,091	1,884,884	1,971,975	1,069,934½	186,121	1,256,055½
1893-94.	43,937	1,492,257	1,536,194	1,297,935	147,586	1,445,521
1894-95.	22,922	1,676,876	1,699,792	1,725,053½	165,844	1,890,897½
1895-96.	19,506	1,488,981½	1,508,487½	2,613,547½	147,262	2,760,809½
1896-97.	16,140	1,018,330	1,034,470	3,803,294	100,714	3,904,008
1897-98.	10,055	1,161,221	1,171,276	4,556,593	114,845	4,671,438
1898-99.	10,954	1,141,356	1,152,310	5,470,078	492,996	5,963,074

* Approximate production based on actual production of Chewing and Smoking Tobacco combined, and on the relation which the two kinds sustained to each other in the calendar year.

PRODUCTION OF CIGARS.

Number of Cigars manufactured in Cincinnati, and Covington, Newport, etc., respectively, and the whole number in each year, for years indicated:

YEARS.	CINCINNATI.	COVINGTON, NEWPORT, ETC.	TOTAL.
1878-79.....	89,080,150	8,235,650	97,315,800
1879-80.....	105,822,600	8,658,525	114,481,125
1880-81.....	109,794,150	8,302,950	118,097,100
1881-82.....	115,556,000	9,597,450	125,153,450
1882-83.....	115,987,175	10,384,085	126,371,260
1883-84.....	96,632,750	10,762,000	107,394,750
1884-85.....	73,225,600	7,849,950	81,075,550
1885-86.....	94,110,300	7,019,450	101,129,750
1886-87.....	109,073,650	7,163,450	116,237,100
1887-88.....	113,584,500	6,237,623	119,772,123
1888-89.....	106,809,550	6,892,110	113,501,660
1889-90.....	112,870,000	9,597,367	122,467,367
1890-91.....	124,442,630	6,610,090	131,052,720
1891-92.....	129,135,650	6,558,200	135,693,850
1892.....	134,911,260	6,588,750	141,500,010
1893.....	125,329,970	6,318,050	131,648,020
1894.....	159,537,210	6,567,820	166,095,030
1895.....	162,376,180	6,127,963	168,504,143
1896.....	163,380,910	5,955,140	169,336,050
1897.....	169,176,780	7,763,040	175,939,820
1898.....	227,903,051	8,465,645	236,368,696

NOTE.—During the year ending December 31, 1897, there were made in Cincinnati (including Hamilton County) 5,266,000 Cigarettes, on which \$3,681.61 taxes were paid. In 1898, 9,954,250 Cigarettes; tax, \$8,118.10.

TOBACCO PRODUCTION.

Acreage, production in pounds, and value of Tobacco crops of the United States, as officially reported, for years indicated:

YEARS.	Acres.	Pounds.	Value.	YEARS.	Acres.	Pounds.	Value.
1887.....	598,620	386,240,000	\$40,977,000	1892.....	725,195	498,621,000	\$46,729,000
1888.....	747,326	565,793,000	48,666,000	1893.....	702,952	483,024,000	39,155,000
1889.....	695,301	488,256,000	32,397,000	1894.....	523,103	406,678,000	27,761,000
1890.....	722,198	522,215,000	43,100,000	1895.....	688,950	491,544,000	35,574,000
1891.....	742,945	566,877,000	47,492,000	1896.....	594,749	403,004,000	24,238,000

NOTE.—No official estimate of Tobacco crops since 1896, a revision being made as a result of evident under-estimates of crops reported.

TOBACCO EXPORTS.

Exports of Leaf Tobacco, representing pounds, in years ending June 30:

1887.....	293,667,000	1890.....	244,343,000	1893.....	248,367,000	1896.....	287,700,000
1888.....	249,195,000	1891.....	236,970,000	1894.....	268,791,000	1897.....	305,978,000
1889.....	211,521,000	1892.....	240,716,000	1895.....	293,796,000	1898.....	252,259,000

Value of Leaf Tobacco exported, in years indicated, ending June 30:

1887.....	\$25,638,000	1890.....	\$21,479,000	1893.....	\$22,293,000	1896.....	\$24,405,000
1888.....	21,936,000	1891.....	20,711,000	1894.....	22,939,000	1897.....	24,513,000
1889.....	18,901,000	1892.....	20,303,000	1895.....	25,623,000	1898.....	21,924,000

LEAF TOBACCO TRADE.

Monthly receipts, offerings, rejections and sales of Leaf Tobacco, in hogsheads, and annual business in cases, at the Cincinnati warehouses, during three years:

MONTHS.	RECEIPTS.			OFFERINGS.			REJECTIONS.			SALES.		
	1898	1897	1896	1898	1897	1896	1898	1897	1896	1898	1897	1896
January	7,780	3,772	4,116	7,468	7,732	5,868	1,775	1,911	1,799	5,698	5,821	4,069
February	6,080	6,901	5,287	8,673	9,460	8,165	2,294	2,751	3,009	6,879	6,709	5,156
March	4,627	7,706	4,367	8,084	11,852	8,262	1,606	3,433	2,370	6,428	8,419	5,892
April	3,243	3,306	3,266	7,014	8,550	7,979	1,501	2,149	2,286	5,513	6,401	5,693
May	3,462	4,710	3,368	5,330	6,225	7,492	1,836	1,472	2,067	3,994	4,753	5,425
June	5,203	8,498	10,070	6,225	9,851	11,557	1,255	1,499	3,470	4,970	3,352	8,087
July	6,096	12,795	9,389	6,141	11,319	9,964	1,389	2,347	2,895	4,752	8,972	7,069
August	5,911	11,927	8,978	4,906	7,092	9,113	1,175	1,398	2,568	3,730	5,694	6,545
September	3,077	6,932	5,342	5,032	8,809	8,762	1,177	1,636	2,246	3,855	7,173	6,516
October	1,362	4,209	4,302	3,360	9,841	7,212	919	1,108	1,562	2,441	7,733	5,660
November	1,488	6,055	3,725	3,365	8,807	6,175	719	1,970	1,223	2,646	6,887	4,962
December	1,936	8,775	5,835	2,856	6,531	7,859	880	1,614	2,547	2,026	4,917	5,312
Total hhds. . .	50,205	80,586	68,045	68,403	105,069	98,408	15,976	23,288	28,042	52,427	81,781	70,386
Total cases. .	780	970	1,084	1,050	1,230	1,781	306	240	591	744	990	1,190

Total annual receipts, offerings, rejections and sales of Leaf Tobacco, at the Cincinnati warehouses, for commercial years ending August 31, to 1891-92, and calendar years subsequently:

YEARS.	RECEIPTS.		OFFERINGS.		REJECTIONS.		SALES.	
	Hhds.	Cases.	Hhds.	Cases.	Hhds.	Cases.	Hhds.	Cases.
1880-81.	50,964	*	67,520	*	17,071	*	50,631	*
1881-82.	55,426	8,436	62,017	8,657	16,322	2,162	46,437	6,495
1882-83.	56,743	8,000	83,003	7,752	24,116	2,245	58,941	5,682
1883-84.	52,280	4,243	69,761	4,513	18,116	868	51,645	3,64
1884-85.	62,243	3,497	79,968	3,106	20,549	479	59,419	2,627
1885-86.	58,633	*	73,294	3,067	19,784	751	53,510	2,316
1886-87.	60,769	*	76,369	4,440	15,006	915	61,363	3,525
1887-88.	34,269	3,801	47,167	4,091	10,936	982	36,231	8,109
1888-89.	72,618	3,915	90,246	5,125	26,727	1,435	63,519	3,690
1889-90.	75,315	1,950	111,192	3,360	35,619	1,350	75,573	2,110
1890-91.	80,803	2,354	118,703	3,396	37,138	2,430	81,565	916
1891-92.	84,955	2,530	115,819	3,200	31,659	925	84,160	2,475
1892.	84,482	2,700	109,612	*	26,539	*	83,073	*
1893.	67,467	3,107	79,984	4,492	22,261	1,952	57,708	2,540
1894.	76,625	3,254	104,010	4,685	28,723	1,531	75,287	3,154
1895.	80,508	2,487	103,198	3,609	30,517	1,433	72,681	2,176
1896.	68,045	1,084	98,408	1,781	28,042	591	70,336	1,190
1897.	80,586	970	105,069	1,230	23,288	240	81,781	990
1898.	50,205	780	68,403	1,050	15,976	306	52,427	744

* Not reported.

Stocks of Leaf Tobacco in Cincinnati warehouses on January 1, 1893 to 1899, inclusive, and on September 1 of previous years:

PACKAGES.	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889
Hogsheads	7,387	13,496	15,769	21,119	19,746	21,838	15,638	22,582	21,732	23,827	27,034
Cases	138	91	206	402	358	750	500	339	234	610	390

COMPARATIVE PRODUCTION OF SPIRITS.

Production of Distilled Spirits, representing proof gallons, at Cincinnati and immediate vicinity:

YEARS.	CINCINNATI.	COVINGTON, NEWPORT, ETC.	TOTAL.
1883-84	9,904,116.68	2,059,585.09	11,963,701.77
1884-85	8,267,718.08	3,029,980.42	11,297,698.45
1885-86	8,259,910.80	3,317,236.84	11,577,147.44
1886-87	7,309,820.64	4,385,617.22	11,645,437.86
1887-88	7,463,101.69	3,681,006.23	11,144,107.92
1888-89	7,387,300.21	3,328,387.46	10,715,687.67
1889-90	7,827,277.70	3,753,610.13	11,580,887.83
1890-91	7,824,705.39	2,637,320.85	10,461,906.22
1891-92	6,815,790.29	2,870,320.60	9,686,110.89
1892	6,861,346.52	3,330,503.40	10,191,849.92
1893	7,006,165.87	2,948,270.80	9,949,436.67
1894	6,973,809.40	2,401,571.06	9,375,380.46
1895	0,444,678.60	2,432,638.00	8,877,316.60
1896	5,970,506.70	2,327,058.07	8,297,568.77
1897	8,828,085.40	283,150.68	9,089,236.08
1898	7,722,872.00	1,965,898.64	9,688,770.64

COMPARATIVE PRODUCTION OF RECTIFIED SPIRITS.

Production of Rectified Spirits, representing proof gallons, in Hamilton County, Ohio (Cincinnati), and immediate vicinity, for years indicated:

YEARS.	CINCINNATI.	COVINGTON, NEWPORT, ETC.	TOTAL.
1883-84	9,985,231.56	3,405,299.68	13,390,531.24
1884-85	8,405,332.49	2,815,316.87	11,220,649.36
1885-86	8,538,041.96	3,018,038.00	11,556,079.96
1886-87	8,424,309.02	3,270,331.99	11,694,641.01
1887-88	10,120,271.92	3,582,190.26	13,702,462.18
1888-89	9,289,304.18	3,362,840.00	12,652,144.18
1889-90	9,279,243.73	3,696,801.00	12,976,044.73
1891	9,331,284.85	3,563,924.00	12,895,208.85
1892	9,145,219.41	3,312,087.00	12,457,306.41
1893	7,267,806.26	2,467,443.00	9,735,249.26
1894	8,039,869.01	1,915,611.02	9,955,480.03
1895	7,681,119.79	1,990,353.92	9,671,473.71
1896	7,908,319.00	1,995,499.00	9,903,818.00
1897	6,736,078.00	1,911,804.00	8,647,882.00
1898	7,050,876.40	1,987,723.88	9,038,600.28

NOTE.—Previous to 1891 the record is for years ending July 31: from 1891 for calendar years.

REVENUE FROM SPIRITS.

United States Internal Revenue from Spirits, for years ending June 30:

1883.....\$74,368,000	1887.....\$65,766,000	1891.....\$83,836,000	1895.....\$79,863,000
1884.....76,905,000	1888.....69,287,000	1892.....91,310,000	1896.....80,670,000
1885.....67,511,000	1889.....74,808,000	1893.....94,713,000	1897.....82,008,000
1886.....69,092,000	1890.....81,683,000	1894.....85,259,000	1898.....92,547,000

MOVEMENT OF WHISKY.

Actual monthly receipts and shipments of Whisky, at Cincinnati, including receipts from Petersburg and Carrollton, Kentucky:

MONTHS.	RECEIPTS.			SHIPMENTS.		
	1898	1897	1896	1898	1897	1896
January.....	19,412	17,915	18,124	30,100	24,989	27,011
February.....	19,363	16,972	18,695	28,869	25,864	25,567
March.....	18,987	18,026	19,282	26,395	29,996	29,005
April.....	21,173	16,391	21,076	30,729	27,924	28,654
May.....	20,175	15,613	17,729	29,672	27,091	26,763
June.....	15,148	12,401	18,606	25,458	22,948	26,402
July.....	13,002	11,890	16,374	21,677	21,148	21,555
August.....	16,715	18,275	17,122	24,890	28,381	24,366
September.....	18,460	16,231	18,210	27,622	28,980	25,733
October.....	22,841	19,840	24,060	32,478	32,234	32,833
November.....	23,825	26,460	23,079	37,325	39,991	30,643
December.....	28,919	23,753	24,259	40,183	40,043	37,108

Receipts and shipments of Whisky, at Cincinnati, for commercial years ending August 31, to 1891-92, and calendar years subsequently:

YEARS.	Receipts, bbls.	Shipm'ts, bbls.	YEARS.	Receipts, bbls.	Shipm'ts, bbls.	YEARS.	Receipts, bbls.	Shipm'ts, bbls.
1869-70.....	444,291	441,820	1879-80.....	154,819	456,403	1889-90.....	245,541	496,258
1870-71.....	313,072	375,699	1880-81.....	191,232	469,464	1890-91.....	292,009	524,126
1871-72.....	316,041	395,764	1881-82.....	201,197	474,436	1891-92.....	314,800	517,925
1872-73.....	273,848	369,902	1882-83.....	217,644	465,633	1892.....	320,724	523,035
1873-74.....	338,631	335,684	1883-84.....	272,316	505,309	1893.....	340,308	463,498
1874-75.....	305,324	347,423	1884-85.....	222,414	453,446	1894.....	385,160	505,183
1875-76.....	295,012	329,021	1885-86.....	201,332	446,864	1895.....	245,394	368,100
1876-77.....	320,877	300,684	1886-87.....	187,265	434,960	1896.....	236,596	342,285
1877-78.....	119,639	351,473	1887-88.....	227,135	447,162	1897.....	213,767	356,178
1878-79.....	139,262	397,816	1888-89.....	268,528	476,469	1898.....	238,060	359,733

NOTE.—From 1877-78 to 1898 the receipts do not include Whisky manufactured in Hamilton County, Covington, etc., which was previously embraced.

Aggregate yearly production and receipts of Whisky, at Cincinnati, stated in gallons, and value of the same, for years indicated:

YEARS.	Made and Received.	Total Value.	YEARS.	Made and Received.	Total Value.
1887-88.....	21,375,182	\$25,332,764	1893.....	26,284,220	\$31,897,000
1888-89.....	23,619,447	26,734,568	1894.....	27,863,060	34,360,000
1889-90.....	23,450,232	26,166,496	1895.....	20,656,228	25,598,000
1890-91.....	24,478,338	29,863,572	1896.....	19,654,171	24,194,000
1891-92.....	24,796,510	30,878,000	1897.....	19,350,052	23,630,000
1892.....	25,586,602	31,033,000	1898.....	21,115,650	26,194,000

Total production of Distilled Spirits in the United States, in gallons:

1886-87.....	79,433,000	1889-90.....	111,102,000	1892-93.....	131,010,000	1895-96.....	89,992,000
1887-88.....	71,688,000	1890-91.....	117,767,000	1893-94.....	92,153,000	1896-97.....	65,573,000
1888-89.....	91,133,000	1891-92.....	118,436,000	1894-95.....	81,910,000	1897-98.....	83,668,000

CHANGES IN PRICES OF SPIRITS.

Changes in basis price of Spirits, per proof gallon, 1887 to 1898, inclusive, and of Highwines, at Cincinnati, previously :

1881		1882		1885		1892			
April	6.....\$1 05	June	10.....\$1 15	January	28.....\$1 13	December	9.....\$1 25		
	7..... 1 04		12..... 1 14	September	9..... 1 04		15..... 1 30		
	9..... 1 05		17..... 1 12		10..... 1 06	1893			
	13..... 1 06		20..... 1 11		18..... 1 08	January	10..... 1 35		
	18..... 1 05		21..... 1 12		22..... 1 04		30..... 1 17		
	21..... 1 03		22..... 1 13		23..... 1 03	April	3..... 1 15		
	22..... 1 05		24..... 1 12		24..... 1 05		15..... 1 14		
May	2..... 1 04		27..... 1 13		26..... 1 04		27..... 1 13		
	6..... 1 05		30..... 1 12	October	28..... 1 05	May	16..... 1 12		
	9..... 1 06	July	8..... 1 13	December	21..... 1 07	October	13..... 1 14		
	14..... 1 05		11..... 1 14		30..... 1 09		28..... 1 15		
	16..... 1 04		18..... 1 15	1886		1894			
	25..... 1 05		21..... 1 16	July	2..... 1 08	July	2..... 1 18		
June	6..... 1 06	August	31..... 1 15	August	10..... 1 07		6..... 1 20		
	21..... 1 07		5..... 1 13		31..... 1 10		12..... 1 22		
	24..... 1 08		8..... 1 14	September	7..... 1 10	August	14..... 1 25		
July	21..... 1 07		9..... 1 15		22..... 1 12		18..... 1 28		
	25..... 1 09		10..... 1 16	October	1..... 1 13		27..... 1 33		
	29..... 1 07		17..... 1 17	1887		October	4..... 1 23		
	30..... 1 08		31..... 1 18	May	5..... 1 05	December	25..... 1 22		
August	8..... 1 09	September	7..... 1 17	1888		1895			
	9..... 1 10		27..... 1 16	January	25..... 1 08	February	23..... 1 25		
	15..... 1 12	October	7..... 1 15	February	4..... 1 09	April	9..... 1 23		
	16..... 1 14		11..... 1 16	May	8..... 1 11		10..... 1 22		
	17..... 1 15		12..... 1 17		11..... 1 12		15..... 1 21		
	27..... 1 14		22..... 1 15		19..... 1 13		18..... 1 20		
September	10..... 1 13	November	2..... 1 13	June	2..... 1 14	May	6..... 1 22		
	12..... 1 12 ^{1/2}		3..... 1 12	December	29..... 1 08		13..... 1 23		
	14..... 1 13		6..... 1 13	1889			24..... 1 24		
	15..... 1 14		7..... 1 14	April	20..... 1 02	June	3..... 1 25		
	24..... 1 15		22..... 1 15	1890		July	21..... 1 24		
October	14..... 1 14	December	8..... 1 14	May	24..... 1 09		26..... 1 22		
	15..... 1 13		9..... 1 13	July	12..... 1 10	1896			
	28..... 1 12		11..... 1 10		28..... 1 11	August	15..... 1 19		
	29..... 1 11		13..... 1 12	August	29..... 1 12		27..... 1 18		
November	3..... 1 12		20..... 1 13	October	7..... 1 13	1897			
	5..... 1 11	1883			21..... 1 14	February	2..... 1 17		
	7..... 1 10	February	19..... 1 14	1891		March	29..... 1 18		
	8..... 1 09	March	27..... 1 12	March	11..... 1 15	April	12..... 1 19		
	10..... 1 08		30..... 1 13		13..... 1 16	August	20..... 1 20		
	15..... 1 10	1884		April	17..... 1 18		23..... 1 21		
	19..... 1 11	January	4..... 1 14	May	27..... 1 17	September	30..... 1 20		
	21..... 1 12	February	20..... 1 15	July	19..... 1 16	October	25..... 1 19		
	22..... 1 13	April	18..... 1 12	August	28..... 1 17	1898			
	26..... 1 14		19..... 1 06		18..... 1 18	February	19..... 1 30		
	28..... 1 15		22..... 1 10	1892		April	22..... 1 21		
1882			25..... 1 11	March	3..... 1 14		27..... 1 22		
January	12..... 1 16		25..... 1 11	April	9..... 1 13	May	10..... 1 23		
	30..... 1 17		22..... 1 01	May	21..... 1 14	July	9..... 1 25		
February	16..... 1 16	May	23..... 1 08	June	21..... 1 15		12..... 1 23		
	1..... 1 17	June	2..... 1 07		6..... 1 16		15..... 1 25		
April	1..... 1 18		3..... 1 11	July	17..... 1 15	November	23..... 1 26		
May	1..... 1 18		6..... 1 08	August	6..... 1 20	December	28..... 1 27		
	6..... 1 16		7..... 1 07	1893					
	8..... 1 15		18..... 1 08	January	21..... 1 16				
	9..... 1 12		19..... 1 07	February	3..... 1 14				
	12..... 1 14		7..... 1 08	March	9..... 1 13				
	13..... 1 16	July	9..... 1 07	May	9..... 1 14				
	16..... 1 14		26..... 1 05		21..... 1 15				
	25..... 1 15		28..... 1 06	June	6..... 1 16				
	31..... 1 16	August	6..... 1 07		17..... 1 15				
June	3..... 1 15	September	1..... 1 10	December	6..... 1 20				
	5..... 1 13		10..... 1 11						
	9..... 1 14								

ANNUAL PRICES OF SPIRITS.

Average annual prices of Proof Spirits, per gallon, at Cincinnati, as indicated :

1863-64.....	\$1 02.50	1872-73.....	\$0 88.75	1881-82.....	\$1 14.97	1890-91.....	\$1 15.05
1864-65.....	2 01.00	1873-74.....	92.80	1882-83.....	1 13.80	1891-92.....	1 15.77
1865-66.....	2 24.50	1874-75.....	1 04.40	1883-84.....	1 11.72	1892.....	1 15.63
1866-67 (in bond).....	29.50	1875-76.....	1 09.00	1884-85.....	1 11.94	1893.....	1 15.87
1867-68.....	nominal	1876-77.....	1 06.60	1885-86.....	1 08.35	1894.....	1 19.85
1868-69.....	1 01.00	1877-78.....	1 04.40	1886-87.....	1 10.17	1895.....	1 22.50
1869-70.....	98.50	1878-79.....	1 03.50	1887-88.....	1 06.85	1896.....	1 20.50
1870-71.....	87.25	1879-80.....	1 06.43	1888-89.....	1 06.21	1897.....	1 18.87
1871-72.....	87.62	1880-81.....	1 06.06	1889-90.....	1 04.30	1898.....	1 22.95

NOTE.—In order to understand these averages, with the great disparity which is apparent, it must be remembered that, from September, 1862, to the present time, internal revenue taxes have been imposed by the General Government, ranging from twenty cents to two dollars per gallon. By an act of Congress of July 20, 1868, the tax was reduced from two dollars per gallon to fifty cents. Additional charges were provided for by the act for the reduction of the gallon tax, which, according to figures heretofore given, made the whole tax on a gallon of whisky here about 63.47 cents. The law was again changed, so that on and after August 1, 1872, there was a uniform tax of seventy cents per gallon, which was all the tax that was imposed, excepting a stamp of the denomination of ten cents, which had to be placed on each barrel when gauged. On March 4, 1875, a new act went into operation, changing the uniform tax from seventy to ninety cents per gallon, and making it necessary, as before, to have a stamp of the denomination of ten cents on each barrel, the barrel tax of ten cents having continued until May 28, 1880, when it was abolished. On August 28, 1894, the tax was advanced to \$1.10 per gallon.

PRICES OF LUMBER.

Prices of Hard Lumber, per 1,000 feet, at Cincinnati, at the close of December, 1897, 1896, 1895, 1894, 1893, and at the close of August for previous years indicated :

KINDS.	1898	1897	1896	1895	1894	1893	1892
Ash.....	\$27 00@ 35 00	\$26 00@32 00	\$25 00@28 00	\$23 0 0@30 00	\$25 00@30 00	\$25 00@30 00	\$25 00@30 00
Cherry.....	70 00@100 00	60 00@90 00	50 00@90 00	50 00@90 00	30 00@90 00	30 00@90 00	30 00@90 00
Elm.....	14 00@ 20 00	10 00@18 00	10 00@16 00	10 00@16 00	10 00@16 00	10 00@16 00	10 00@16 00
Gum.....	18 00@ 28 00	18 00@25 00	15 00@20 00	15 00@20 00	10 00@20 00	10 00@20 00	10 00@20 00
Hickory.....	27 00@ 35 00	27 00@32 00	25 00@28 00	28 00@30 00	25 00@30 00	25 00@30 00	25 00@30 00
Oak, plain.....	20 00@ 35 00	22 00@30 00	18 00@25 00	18 00@25 00	16 00@25 00	16 00@25 00	16 00@25 00
Oak, quartered.....	27 50@ 47 50	35 00@42 50	32 00@40 00	32 00@40 00	22 00@45 00	22 00@45 00	20 00@45 00
Poplar.....	18 00@ 30 00	18 00@28 00	16 00@27 00	16 00@27 00	16 00@30 00	16 00@30 00	12 00@27 00
Sycamore.....	16 00@ 27 00	18 00@25 00	16 00@20 00	16 00@20 00	10 00@20 00	10 00@20 00	16 00@20 00
Walnut.....	25 00@100 00	45 00@90 00	35 00@90 00	35 00@90 00	35 00@90 00	35 00@90 00	35 00@90 00

Prices of the various grades of White and Yellow Pine Lumber, per 1,000 feet, large lots, at Cincinnati, at the close of December, as indicated :

KINDS.	1898	1897	KINDS.	1898	1897
White Pine—			Yellow Pine, flooring—		
First and second clear.....	\$52 50	\$52 50	First and second clear.....	\$21 00	\$22 00
Third clear.....	49 00	47 50	First standard.....	19 00	20 00
Selects.....	47 00	45 00	Second standard.....	14 00	17 00
First common.....	50 00	42 50	Common.....	15 00	15 00
Second common.....	37 50	37 50			
Shop.....	36 00	35 00	Shingles—		
Third common.....	17 00	18 00	XXXX Pine, 18 inches.....	3 25	3 75
Fourth common.....	16 00	16 00	Clear butt pine.....	3 00	2 75
Boxing.....	14 00	13 00	Cypress.....	2 75	3 50
Piece stuff, No. 1.....	16 00	15 00	Prime.....	2 25	3 00

PRODUCTION AND PRICES OF BEER, ETC.

Annual production of Malt Liquors, representing barrels, in Cincinnati, Ohio, and Covington, Newport, etc., Kentucky, for commercial years ending August 31, to 1891-92, and calendar years subsequently :

YEARS.	CINCINNATI.	COVINGTON, ETC.	TOTALS.	YEARS.	CINCINNATI.	COVINGTON, ETC.	TOTALS.
1879-80	655,520	52,800	708,320	1889-90	1,187,208	100,570	1,287,778
1880-81	682,861	58,480	736,341	1890-91	1,263,778	115,880	1,379,658
1881-82	769,621	57,660	827,281	1891-92	1,229,255	121,610	1,350,865
1882-83	813,953	60,860	874,813	1892	1,249,280	125,070	1,374,350
1883-84	850,605	67,040	917,645	1893	1,198,786	128,580	1,327,366
1884-85	841,822	71,590	913,412	1894	1,131,002	129,010	1,260,012
1885-86	901,299	77,340	978,639	1895	1,196,518	139,810	1,336,328
1886-87	1,041,731	83,130	1,124,861	1896	1,179,771	136,220	1,315,991
1887-88	1,080,176	86,228	1,166,404	1897	1,172,907	136,600	1,311,507
1888-89	1,084,593	86,330	1,170,923	1898	1,158,155	159,000	1,317,155

Sales of Beer Stamps in 1898 in Hamilton County, Ohio (Cincinnati), were \$1,566,628.75; in Covington and Newport, Kentucky, \$214,832.52. The tax on Beer was \$1.00 per barrel, less $7\frac{1}{4}$ per cent, to June 13, 1898; subsequently \$2.00 per barrel, less $7\frac{1}{4}$ per cent.

Relative prices of Ale, Beer and Porter, per barrel, at Cincinnati, at the close of December, in years indicated :

ARTICLES.	1896	1897	1898	1895	1894	1893
Ale	\$7 00@8 00	\$7 00@8 00	\$7 00@8 00	\$7 00@8 00	\$7 00@8 00	\$7 00@8 00
Beer, Lager	6 60	5 60	5 75	6 00	6 00	6 60
Porter	7 00@8 00	7 00@8 00	7 00@8 00	7 00@8 00	7 00@8 00	7 00@8 00

FREIGHT RATES ON MEATS.

Average monthly and yearly schedule of Freight Rates, by rail, on Meats packed, per 100 pounds, from Cincinnati to New York, for years indicated :

YEARS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1879	83	80.4	26 $\frac{1}{4}$	21	21	18 $\frac{1}{2}$	21 $\frac{1}{2}$	26 $\frac{1}{2}$	80 $\frac{1}{2}$	83 $\frac{1}{2}$	37 $\frac{1}{2}$	89	28.19
1880	89	89	39	34 $\frac{1}{2}$	30 $\frac{1}{2}$	30 $\frac{1}{2}$	30 $\frac{1}{2}$	30 $\frac{1}{2}$	30 $\frac{1}{2}$	30 $\frac{1}{2}$	31 $\frac{1}{2}$	35	33.41
1881	85	35	35	30 $\frac{1}{2}$	30 $\frac{1}{2}$	25 $\frac{1}{2}$	21 $\frac{1}{2}$	21 $\frac{1}{2}$	21 $\frac{1}{2}$	21 $\frac{1}{2}$	21 $\frac{1}{2}$	21 $\frac{1}{2}$	26.78
1882	21 $\frac{1}{2}$	24 $\frac{1}{2}$	26	26	26	26	26	26	26	26	26	30 $\frac{1}{2}$	25.85
1883	30 $\frac{1}{2}$	30 $\frac{1}{2}$	29 $\frac{1}{2}$	26	26	26	26	26	26	26	26	30 $\frac{1}{2}$	27.83
1884	30 $\frac{1}{2}$	30 $\frac{1}{2}$	23 $\frac{1}{2}$	17 $\frac{1}{2}$	17 $\frac{1}{2}$	18.4	23	26	26	26	26	26	24.22
1885	24.4	21 $\frac{1}{2}$	20	20.6	18 $\frac{1}{2}$	17 $\frac{1}{2}$	17 $\frac{1}{2}$	21 $\frac{1}{2}$	21 $\frac{1}{2}$	21 $\frac{1}{2}$	22.8	26	21.10
1886	26	26	26	26	26	26	26	26	26	26	26	27.7	26.14
1887	30 $\frac{1}{2}$	30 $\frac{1}{2}$	30 $\frac{1}{2}$	26	26	26	26	26	26	26	26	26	27.12
1888	28	28 $\frac{1}{2}$	26.3	26	26	26	19.9	17.3	15 $\frac{1}{2}$	18.8	21 $\frac{1}{2}$	23.6	23.11
1889	26	26	26	26	26	26	26	26	26	26	26	26	26
1890	26	26	26	26	26	26	26	24.8	20	20	20	20	23.89
1891	20	24.3	26	26	26	26	26	26	26	26	26	26	25.36
1892	26	26	26	26	26	25.7	21.5	21.5	21.5	21.5	21.5	21.5	23.7
1893	21 $\frac{1}{2}$	23 $\frac{3}{4}$	26	26	26	26	26	26	26	26	26	26	25.43
1894	26	26	26	26	26	26	26	26	26	26	26	26	26
1895	26	26	26	26	26	26	26	26	26	26	26	26	26
1896	26	26	26	26	26	26	26	26	26	26	26	26	26
1897	26	26	26	26	26	26	26	26	26	26	26	26	26
1898	26	26	26	26	26	26	26	26	26	26	26	26	26

INTERNAL REVENUE COLLECTIONS.

Collections of Internal Revenue from all sources, at Cincinnati, for calendar years 1894 to 1898 inclusive:

SOURCES.	1898.	1897	1896	1895	1894
DISTILLED SPIRITS.					
Tax on Spirits.....	\$7,882,755 54	\$8,511,969 62	\$5,488,070 11	\$5,823,076 05	\$6,304,276 90
Export Stamps.....	140 70	34 10	28 80	38 60	26 80
Totals	\$7,882,896 24	\$8,512,003 72	\$5,488,098 91	\$5,823,109 65	\$6,304,303 20
BEER.					
Tax on Beer (less 7½ per cent. discount allowed for sour Beer).....	\$1,566,628 75	\$1,102,956 50	\$1,091,288 05	\$1,108,629 85	\$1,046,176 75
TOBACCO, CIGARS AND SNUFF.					
Tax on Smoking and Chewing Tobacco, Cigars and Snuff.....	\$1,066,870 99	\$785,360 56	\$722,594 83	\$649,475 48	\$587,202 08
SPECIAL STAMPS.					
Documentary Stamps	\$287,928 09				
Proprietary Stamps.....	63,404 09				
Total.....	\$351,332 18				
SPECIAL TAXES (LICENSES), ETC.					
Rectifiers	\$12,958 34	\$12,583 32	\$11,850 00	\$11,100 00	11,550 00
Wholesale Liquor Dealers.....	17,791 66	18,190 66	18,308 33	18,860 53	19,133 34
Retail Liquor Dealers.....	94,236 84	89,151 85	88,981 25	95,749 53	97,535 45
Brewers	3,958 34	3,650 00	3,716 66	4,075 00	3,625 84
Stillers or Worms for distilling, manufactured.....	640 00	140 00	360 00	800 00	840 00
Manufacturers of Stillers.....	145 84	87 50	104 16	112 50	175 00
Dealers in Oleomargarine.....	9,940 00	9,904 00	9,096 00	7,716 00	8,084 00
Dealers in Malt Liquors.....	3,932 50	4,125 45	3,448 33	3,623 80	2,996 66
Manufacturers of Tobacco, Manufacturers of Cigars, and Dealers in Leaf Tobacco.....	10,457 00				
Brokers	3,558 81				
Pawnbrokers	533 33				
Custom House Brokers.....	27 50				
Commercial Brokers.....	1,286 67				
Theaters, Circuses and Public Exhibitions.....	2,306 67				
Manufacturers of Mixed Flour.....	44 00				
Bowling Alleys and Pool Tables.....	7,200 00				
Totals	\$169,076 00	\$137,832 78	\$135,864 73	\$141,527 86	\$143,940 29
OTHER SOURCES.					
Tax collected from other sources.....	\$257,796 01	\$138,373 88	\$108,705 90	\$95,509 19	\$9,042 63
Tax, all sources.....	\$11,294,600 17	\$10,676,527 44	\$7,496,547 42	\$7,818,251 53	\$8,090,664 95

NOTE.—Tax on Spirits 90 cents per gallon previous to August 28, 1894; \$1.10 subsequently. Tax on Beer \$1.00 per barrel previous to June 18, 1898; \$2.00 subsequently.

PRICES OF PAPER.

Wholesale quotations for Paper, per pound, in large lots, at Cincinnati, at the close of December, for two years:

KINDS.	1898	1897	KINDS.	1898	1897
Book, sized and super calendered.....	3½ @ 4¼	4 @ 5	Wrapping, rag	1½ @ 1¾	1½ @ 1¾
Book, sized and calendered.....	3¼ @ 4	3½ @ 4	Wrapping, straw.....	1 @ 1½	1½ @ 1¾
Book, No. 8.....	3 @ 3½	3 @ 3½	Writing, fine.....	6½ @ 8	7½ @ 10
Manilla, No. 1.....	3½ @ 4½	3½ @ 4½	Writing, superfine.....	11 @ 15	12 @ 16
Manilla, No. 2.....	2 @ 2½	2 @ 2½	Writing, manilla.....	8¼ @ 4	8½ @ 4½
News, print.....	2¼ @ 2½	2 @ 2½			

OHIO RIVER STEAMERS.

Detailed statement of Freight and Passenger Steamers in service between Cincinnati and other ports during the year 1898, showing names, when built, where built, and tonnage of each, according to custom-house measurement:

NAMES.	When Built.	Where Built.	Ton- nage.	NAMES.	When Built.	Where Built.	Ton- nage.
Argand.....	1896	Levanna, O.....	96.01	Lizzie Bay.....	1886	Madison, Ind.....	176.39
Bonanza.....	1885	Cincinnati, O.....	741.13	New South.....	1887	Jeffersonville, Ind.	932.95
Bostona.....	1879	Cincinnati, O.....	993.32	Queen City.....	1897	Cincinnati, O.....	624.23
Buckeye State.....	1883	Cincinnati, O.....	669.92	State of Kansas.....	1889	Madison, Ind.....	890.72
City of Louisville.....	1894	Jeffersonville, Ind.	1,681.98	Sunshine.....	1892	Brownsville, Pa.....	535.04
Courier.....	1885	Fredom, Pa.....	296.49	Tacoma.....	1883	New Richmond, O.....	266.92
Dick Brown.....	1893	Marietta, O.....	148.99	Urania.....	1897	Marietta, O.....	213.00
H. K. Bedford.....	1885	Jeffersonville, Ind.	139.68	Virginia.....	1895	Cincinnati, O.....	628.08
Henry M. Stanley.....	1890	Pt. Pleasant, W. Va.	293.77	W. F. Nisbet.....	1883	Jeffersonville, Ind.	576.86
Hudson.....	1886	Pittsburgh, Pa.....	741.76	Will J. Cummins..	1886	Jeffersonville, Ind.	281.34
Island Queen.....	1896	Cincinnati, O.....	1,446.65				
John K. Speed.....	1891	Madison, Ind.....	1,090.27	Total tonnage, 1898.....			14,677.34
Kanawha.....	1896	Ironton, O.....	429.00	Total tonnage, 1897.....			15,881.37
Keystone State.....	1890	Marietta, O.....	599.02	Decrease.....			1,204.03
Levi J. Workum.....	1891	Cincinnati, O.....	183.82				

NOTE.—The above list includes only Steamers engaged in freight and passenger traffic during the year. There were no losses of Ohio River Steamers in 1898.

STEAMER TONNAGE COMPARISONS.

The whole number of Steamers in the freight and passenger traffic between Cincinnati and other ports, and total tonnage, compared for ten years:

YEARS.	Number.	Tonnage.	YEARS.	Number.	Tonnage.
1888-89.....	42	24,453	1894.....	34	20,527
1889-90.....	48	23,583	1895.....	30	18,587
1890-91.....	37	24,145	1896.....	25	15,082
1891-92.....	40	23,374	1897.....	27	15,881
1893.....	36	22,569	1898.....	25	14,677

PRICES OF TANNERS' BARK.

Lowest and highest prices of Tanners' Bark, per cord, at Cincinnati:

YEARS.	Lowest.	Highest.	YEARS.	Lowest.	Highest.	YEARS.	Lowest.	Highest.
1872-73.....	\$15 00	\$27 50	1881-82.....	\$12 00	\$15 00	1890-91.....	\$10 00	\$14 00
1873-74.....	12 00	16 00	1882-83.....	14 00	15 00	1891-92.....	10 00	11 00
1874-75.....	12 00	16 00	1883-84.....	11 00	16 00	1892.....	10 00	12 50
1875-76.....	11 00	15 50	1884-85.....	9 25	13 00	1893.....	9 00	14 00
1876-77.....	11 00	25 00	1885-86.....	9 50	14 50	1894.....	9 00	11 00
1877-78.....	8 50	14 50	1886-87.....	11 00	14 00	1895.....	8 00	12 00
1878-79.....	9 75	13 00	1887-88.....	10 00	14 50	1896.....	9 00	11 00
1879-80.....	9 00	19 00	1888-89.....	10 00	12 00	1897.....	8 50	10 00
1880-81.....	15 00	23 00	1889-90.....	12 00	15 00	1898.....	8 50	9 50

NOTE.—The average price in 1895 was \$9.50; in 1896, \$9.20; in 1897, \$9.25; in 1898, \$8.90 per cord, on arrival.

ARRIVALS AND DEPARTURES OF STEAMERS.

Monthly arrivals and departures of Freight and Passenger Steamers, at Cincinnati, with comparisons for three years, as indicated:

MONTHS.	ARRIVED FROM											
	NEW ORLEANS.			PITTSBURGH AND WHEELING.			OTHER POINTS.			TOTALS.		
	1896	1897	1896	1896	1897	1896	1896	1897	1896	1896	1897	1896
January	4	4	2	11	12	5	114	70	20	129	86	27
February	4	5	4	7	8	9	100	48	76	111	61	89
March	5	5	5	10	12	11	96	81	97	111	98	113
April	5	5	3	10	10	10	107	75	99	122	90	112
May	3	5	5	13	11	12	102	77	91	118	98	106
June	4	4	1	11	10	10	130	83	107	145	97	118
July	2	3	..	4	5	9	78	91	87	84	99	96
August .....	..	..	..	7	10	7	96	84	87	103	94	94
September .....	..	..	..	4	1	..	110	46	84	114	47	84
October .....	..	..	..	2	..	9	117	28	85	119	28	94
November	4	..	..	12	3	12	100	56	78	112	59	90
December	4	1	3	10	9	12	114	88	86	128	98	101
Totals	31	32	21	101	91	106	1,264	827	997	1,896	950	1,124

MONTHS.	DEPARTED FOR											
	NEW ORLEANS.			PITTSBURGH AND WHEELING.			OTHER POINTS.			TOTALS.		
	1896	1897	1896	1896	1897	1896	1896	1897	1896	1896	1897	1896
January	2	3	2	12	12	5	114	72	21	128	87	28
February	2	3	5	7	8	9	102	50	77	111	61	91
March	5	4	5	10	12	11	98	79	95	113	95	111
April	3	4	4	9	12	12	105	79	94	117	95	110
May	5	5	1	13	12	12	100	78	94	118	95	107
June	3	4	..	9	9	10	131	79	97	143	92	107
July	1	..	..	3	6	9	80	88	80	84	94	96
August .....	..	..	..	8	10	7	94	84	81	102	94	88
September .....	..	..	..	3	1	..	112	46	74	115	47	74
October .....	..	..	..	2	..	12	115	28	86	117	28	98
November .....	..	1	2	12	2	12	104	56	74	116	59	88
December	3	3	5	12	10	12	112	88	85	127	101	102
Totals	24	27	24	100	94	111	1,267	827	967	1,391	948	1,042

Annual arrivals and departures of Steamers, at Cincinnati, for years indicated:

YEARS.	Arrivals.	Departures.	YEARS.	Arrivals.	Departures.	YEARS.	Arrivals.	Departures.
1863-64	2,936	2,813	1875-76	2,779	2,808	1887-88	2,113	2,115
1864-65	3,490	3,219	1876-77	2,646	2,653	1888-89	2,521	2,522
1865-66	3,459	3,379	1877-78	2,942	2,942	1889-90	2,257	2,252
1866-67	2,853	2,838	1878-79	2,725	2,730	1890-91	2,234	2,234
1867-68	2,694	2,681	1879-80	3,163	3,167	1891-92	2,185	2,188
1868-69	3,026	2,993	1880-81	2,638	2,638	1892	2,062	2,062
1869-70	2,712	2,726	1881-82	2,739	2,736	1893	1,891	1,894
1870-71	2,377	2,356	1882-83	2,340	2,329	1894	1,687	1,694
1871-72	2,271	2,235	1883-84	2,170	2,162	1895	1,028	983
1872-73	2,340	2,333	1884-85	2,137	2,138	1896	1,124	1,042
1873-74	2,596	2,600	1885-86	2,489	2,483	1897	950	948
1874-75	2,602	2,665	1886-87	2,272	2,281	1898	1,396	1,391

RIVER COMMERCE.

Receipts and shipments of Merchandise, by river, at Cincinnati, for two years, each year ending December 31, as indicated:

ARTICLES.	RECEIPTS.		SHIPMENTS.	
	1898	1897	1898	1897
Alcohol, bbls.....			221	81
Ale, Beer and Porter, bbls.....	210	12	9,290	10,807
Apples, Green, bbls.....	3,355	28,799	4,668	8,063
Bagging, pieces.....	1,585	382	777	807
Barley, bush.....		200		258
Beans, bush.....	2,163	2,941	17,208	8,217
Beef, lbs.....			15,800	12,159
Boots and Shoes, cases.....	2,678	3,651	15,048	14,559
Bran, Middlings, etc., tons.....	196	165	227	214
Brooms, dozen.....			2,295	1,767
Broom Corn, lbs.....	6,600	2,600	100	600
Butter, tubs, etc.....	5,377	5,426	305	588
Candles, boxes.....	25		5,686	4,910
Castings, tons.....	886	2,125	191	522
Cattle, head.....	8,938	7,151	916	320
Cement and Plaster, bbls.....	6,643	6,055	7,811	6,921
Cheese, boxes.....	143	258	3,877	3,959
Cider, bbls.....	856	1,042	878	856
Coffee, bags.....	580	216	11,268	13,110
Cooperage, pieces.....	38,597	26,564	12,525	40,481
Corn, bush.....	21,732	24,404	20,892	4,467
Corn Meal, bbls.....	1	16	400	1,140
Cotton, bales.....	21,382	32,024	1,997	1,247
Crockery, pkgs.....	8,800	1,589	3,287	5,566
Eggs, cases, etc.....	26,317	32,738	6,452	4,203
Feathers, lbs.....	182,235	169,148	5,702	8,999
Fish, bbls.....	761	680	1,222	2,265
Fish, kegs and kits.....	58	395	13,063	8,192
Flour, bbls.....	10,636	8,243	11,077	21,276
Fruit, Dried, lbs.....	224,837	299,527	236,060	214,260
Fruit, Green, tons.....	856	436	16	
Furniture, pkgs.....			27,268	21,879
Glass, Window, boxes.....	5,652	7,334	3,395	2,951
Glassware, pkgs.....	48,998	48,671	52,048	42,413
Grease, tierces.....	3,242	1,026	345	356
Hardware, pkgs.....	8,353	7,915	30,622	17,686
Hay, tons.....	2,598	2,886	150	170
Hides, number.....	28,885	20,126	5,673	3,249
Hog Product—Bacon, lbs.....	56,150	16,250	3,434,870	3,008,070
D. S. Meats, loose, lbs.....	2,000		6,650	10,500
D. S. Meats, in boxes, lbs.....	5,000	6,500	154,700	467,500
Hams, lbs.....	4,830	3,580	549,967	557,040
Lard, lbs.....	29,920	7,820	729,480	856,200
Pork, bbls.....	36	8	222	391
Hogs, head.....	96,510	77,442	121	115
Hops, bales.....	2	113	166	219
Horses, head.....	1,530	1,344	1,384	1,286
Iron and Steel, tons.....	9,798	10,637	4,435	4,697
Iron and Steel, Scrap, tons.....	398	228	34	
Iron, Pig, tons.....	51	45	404	121
Lead, White, lbs.....			1,297,083	1,363,879
Leather, bundles.....	7,287	6,161	2,093	2,074
Lemons, boxes.....	35	57	2,771	2,868
Lime, bbls.....	1,714	2,598	8,288	2,829
Lumber, square feet.....	8,775,000	2,535,000	2,875,000	2,145,000
Malt, bush.....	340		9,273	5,410
Manufactures, sundry, pieces.....			4,810	5,266
Merchandise, tons.....	36,956	17,389	36,860	21,516
Molasses, bbls.....	18,274	16,311	8,223	5,995
Nails, kegs.....	69,211	215,484	56,451	104,639
Oats, bush.....	2,809	3,902	5,460	12,272
Oil, bbls.....	1,870	3,168	2,820	3,929
Onions, bbls. and sacks.....	2,165	1,815	2,141	2,049
Oranges, boxes.....	64	11	5,354	4,711
Peanuts, bags.....	747	706	4,277	4,103

RIVER COMMERCE—Continued.

ARTICLES.	RECEIPTS.		SHIPMENTS.	
	1896	1897	1896	1897
Petroleum, bbls.....	178	1,848	6,214	7,176
Potatoes, bags and bbls.....	13,779	22,440	13,378	8,625
Rice, bbls.....	1,841	698	874	478
Rope, Twine, etc., pkgs.....	3,764	12,460	8,234	9,860
Rosin, bbls.....	3,187	5,146	2,387	877
Rye, bush.....	12,459	25,754	2,841	2,126
Salt, bbls.....	51,965	61,162	85,887	42,527
Seed—Clover and Timothy, bags.....	2,826	2,229	14,642	14,814
Sheep, head.....	17,468	16,098	449	1,044
Shot, pockets.....	126	64	2,575	1,863
Soap, boxes.....	1,528	820	12,627	12,637
Sorghum, bbls.....	8,877	744	210	128
Spices, pkgs.....	234	444	439	647
Starch, boxes.....	47	.....	33,602	42,521
Sugar, hhds.....	258	277	316	192
Sugar, bbls.....	18,729	9,504	10,711	13,358
Tallow, tierces.....	1,582	921	81	19
Tobacco, Leaf, hhds.....	14,964	25,001	1,482	3,218
Tobacco, Leaf, cases and bales.....	841	226	154	46
Tobacco, Manufactured, pkgs.....	766	1,056	5,668	6,927
Turpentine, bbls.....	92	68	185	107
Vegetables, Green, tons.....	963	358	878	711
Vinegar, bbls.....	.....	.....	4,908	6,260
Wheat, bush.....	84,611	57,347	6,904	36,107
Whisky, bbls.....	26,928	24,601	17,983	16,912
Wines and Liquors, bbls.....	917	365	582	1,230
Wines and Liquors, boxes and baskets.....	7,180	3,229	7,077	3,250
Wool, bales.....	1,119	1,158	724	1,178
Yarn, Cotton, pkgs.....	8,520	17,304	.....	.....

MONTHLY COMPARISONS OF RIVER AND RAINFALL.

Highest, lowest and average monthly Stages of the Ohio River, and the monthly and annual Rainfall, at Cincinnati, in two years, ending December 31, representing feet and tenths of feet:

MONTHS.	HIGHEST.				LOWEST.				AVERAGE.		RAINFALL.	
	1896		1897		1896		1897		1896	1897	1896	1897
	Date.	Feet.	Date.	Feet.	Date.	Feet.	Date.	Feet.	Feet.	Feet.	Inches	Inches
January.....	26	52.2	25	17.9	1	14.2	3	9.3	35.5	14.8	7.76	2.48
February.....	1	36.9	26	61.2	11	13.8	1	10.0	25.4	36.7	2.21	5.27
March.....	29	61.4	1	55.6	11	15.0	31	28.4	31.7	40.2	6.70	9.89
April.....	1	56.5	15	36.3	27	16.5	30	15.1	28.2	26.3	1.15	3.08
May.....	1	27.6	17	35.0	6	16.9	31	11.9	23.6	23.2	3.03	2.46
June.....	1	18.8	24	20.9	15	8.1	10	11.1	11.5	8.1	1.58	1.87
July.....	27	11.0	28	25.0	16	6.2	3	14.1	8.4	9.1	3.26	6.71
August.....	13	39.2	1	18.0	31	11.5	31	7.3	19.8	10.2	2.61	1.91
September.....	2	10.8	1	7.2	27	5.0	28	3.3	7.7	4.8	2.62	0.64
October.....	28	24.8	20	4.4	6	4.5	18	3.1	9.2	3.6	2.90	0.46
November.....	17	26.8	23	13.7	9	10.3	6	3.3	17.6	8.0	2.69	6.80
December.....	27	31.9	22	25.6	16	11.5	1	12.0	18.2	17.9	2.46	2.82
For the year.....	Mar. 29	61.4	Feb. 26	61.2	Oct. 6	4.5	Oct. 18	8.1	19.7	16.5	38.87	43.89

RAINFALL AT CINCINNATI.

Monthly and annual Rainfall, at Cincinnati, together with the average in the whole period, in inches and hundredths of an inch :

YEARS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1836.....	2.97	4.34	4.18	4.54	9.01	2.14	7.42	5.64	4.77	3.71	4.41	4.86	57.39
1837.....	.80	3.43	3.70	2.00	3.79	4.38	3.83	5.91	3.14	4.16	2.62	5.05	42.71
1838.....	1.90	1.64	.56	4.74	8.57	7.55	2.47	3.76	.71	3.55	3.12	.85	39.45
1839.....	4.56	2.75	2.69	2.38	4.46	1.96	2.97	.56	3.24	.13	2.20	1.72	29.62
1840.....	1.13	4.68	3.62	4.78	6.06	6.84	4.45	3.73	1.56	4.74	2.50	3.20	47.34
1841.....	5.56	.82	2.34	4.75	2.16	1.51	5.33	2.71	2.94	2.46	4.92	5.56	41.06
1842.....	2.75	6.09	3.02	2.97	3.04	5.67	2.35	4.22	2.95	1.90	3.76	2.57	41.29
1843.....	3.51	3.54	2.97	6.15	3.54	4.52	2.92	5.89	6.73	4.16	4.26	3.00	51.22
1844.....	3.10	1.04	4.50	3.13	7.00	6.16	3.50	3.65	1.26	4.82	3.18	1.10	41.94
1845.....	3.03	1.66	5.46	1.08	1.89	11.50	3.06	6.88	7.51	2.08	1.68	.60	46.38
1846.....	3.59	3.20	2.26	3.51	5.17	7.53	3.93	6.10	2.50	2.19	4.26	9.25	53.52
1847.....	4.71	4.06	5.37	2.12	4.80	7.63	8.25	3.20	3.87	9.57	3.95	8.15	65.18
1848.....	4.58	2.81	6.72	.55	5.13	1.86	6.95	3.90	1.53	3.62	2.60	9.43	49.68
1849.....	6.48	2.04	4.70	3.65	3.61	4.90	8.90	4.41	2.98	3.86	2.42	5.32	52.97
1850.....	5.20	6.28	6.62	4.27	1.86	5.00	6.30	7.20	2.22	1.05	2.54	6.22	54.76
1851.....	.65	6.15	3.04	1.80	3.30	2.10	3.25	2.55	.43	2.60	3.25	3.37	32.49
1852.....	2.03	5.20	5.16	5.80	3.15	5.25	2.05	4.35	4.15	2.75	4.57	9.89	54.35
1853.....	1.53	5.14	2.14	7.70	2.21	1.90	4.81	2.16	4.70	3.78	3.30	.73	40.10
1854.....	4.10	5.57	8.33	2.97	7.29	4.84	2.32	3.18	2.12	3.01	3.66	3.88	50.69
1855.....	3.71	1.58	3.66	3.05	5.24	8.10	4.35	4.25	2.98	1.81	5.22	3.28	47.00
1856.....	1.00	2.49	1.51	.73	1.23	2.24	3.43	.61	3.62	1.74	2.09	2.19	22.88
1857.....	.54	1.98	.76	2.73	5.53	3.09	2.50	2.92	.75	4.92	5.86	3.82	34.90
1858.....	2.56	1.74	1.05	4.34	8.32	5.69	3.01	7.97	.85	4.66	2.57	6.41	49.17
1859.....	2.58	5.92	4.38	7.53	2.32	3.22	1.24	3.79	2.10	1.28	4.46	3.75	42.57
1860.....	1.43	1.56	.41	5.32	3.68	1.55	7.97	.92	4.34	1.28	3.53	1.85	33.84
1861.....	2.68	1.81	2.08	3.88	5.91	3.80	3.62	7.10	2.94	3.77	3.62	1.10	42.31
1862.....	4.74	2.36	5.84	6.30	3.32	3.02	3.05	1.49	.93	.80	3.97	3.01	38.83
1863.....	5.55	3.05	4.37	2.13	2.84	3.11	3.21	2.99	3.10	3.85	2.05	3.80	40.05
1864.....	1.85	.99	.90	2.43	2.34	3.43	1.25	3.42	8.64	2.92	3.40	2.94	34.51
1865.....	2.45	2.43	4.40	3.89	7.72	2.59	7.77	2.26	5.76	.86	.56	3.89	44.58
1866.....	3.36	1.10	5.22	2.49	.98	4.43	7.82	6.31	10.07	1.83	1.57	1.72	46.90
1867.....	1.27	5.32	1.93	3.20	4.48	3.67	2.08	1.13	.65	3.10	1.66	3.66	32.10
1868.....	7.29	.88	5.41	3.30	6.01	7.26	1.80	6.65	8.21	1.10	1.16	1.64	50.71
1869.....	2.17	3.05	5.14	3.05	5.93	3.00	5.36	1.20	3.20	2.75	3.16	3.50	41.51
1870.....	6.20	2.98	4.50	1.42	1.90	5.35	5.56	1.10	.70	3.23	1.40	2.35	36.99
1871.....	2.48	5.10	4.30	1.30	5.45	2.15	4.75	6.90	1.23	1.10	4.28	3.27	42.31
1872.....	6.05	1.66	1.47	4.81	4.10	3.81	7.82	2.21	1.62	3.33	1.12	2.43	40.43
1873.....	2.66	3.76	2.36	2.89	3.50	3.58	3.94	4.69	2.24	2.79	2.50	6.47	41.38
1874.....	3.95	5.91	3.65	4.06	1.88	2.58	3.42	1.03	2.33	1.81	5.35	2.58	37.55
1875.....	1.59	1.83	3.69	2.12	3.92	4.83	9.63	3.17	.65	3.05	4.35	3.75	42.58
1876.....	9.59	2.92	5.07	3.26	1.25	6.67	6.91	6.38	3.17	4.26	2.36	.88	52.72
1877.....	2.33	.67	5.47	2.32	1.76	5.24	4.25	2.26	1.66	1.85	3.49	3.35	34.65
1878.....	4.33	2.33	4.03	3.05	2.53	5.03	4.32	4.11	2.84	2.39	2.77	3.89	41.62
1879.....	2.20	2.22	5.30	2.14	4.23	5.22	2.75	11.72	4.01	.65	4.05	7.11	51.60
1880.....	5.14	4.50	4.15	5.82	5.70	9.86	2.46	4.01	1.37	2.98	4.42	4.26	54.67
1881.....	3.76	4.95	3.51	3.25	2.23	7.82	3.12	.76	2.10	6.01	4.06	5.67	47.24
1882.....	6.02	7.04	6.17	2.71	8.47	4.34	2.91	5.75	3.16	1.59	1.57	2.39	52.12
1883.....	2.82	8.22	3.48	8.72	5.49	3.61	2.21	2.10	1.84	3.39	4.87	5.61	52.36
1884.....	2.21	8.87	2.63	3.02	5.56	2.77	1.73	2.05	3.87	1.35	1.23	3.99	39.26
1885.....	5.80	2.67	.56	3.34	2.07	3.98	1.40	4.95	2.72	2.30	2.33	1.82	33.94
1886.....	2.83	1.65	2.27	2.23	4.11	5.26	3.07	2.91	1.30	.82	3.23	1.67	31.35
1887.....	2.37	7.29	2.07	5.86	3.62	2.64	1.31	2.81	1.93	.55	2.83	1.80	35.05
1888.....	2.78	1.37	3.94	1.14	2.70	1.75	2.46	7.80	1.79	3.05	4.78	1.32	34.88
1889.....	2.38	1.72	.61	1.21	2.52	4.03	4.55	.26	4.31	2.03	5.25	2.02	30.92
1890.....	5.28	4.63	6.26	2.63	3.58	6.00	1.46	5.91	3.28	4.14	2.65	1.88	47.70
1891.....	3.31	3.87	4.86	1.55	1.08	4.83	5.13	2.83	2.65	1.16	5.08	2.14	36.44
1892.....	1.62	2.83	1.96	5.66	3.95	3.81	1.43	3.03	3.78	.40	2.26	1.22	31.95
1893.....	2.87	4.84	1.93	7.10	6.40	4.45	3.79	.86	3.90	3.17	2.04	2.65	44.00
1894.....	2.75	3.78	2.36	1.60	2.32	4.17	.13	1.98	2.46	.82	.96	3.23	26.58
1895.....	6.13	.37	1.51	2.62	1.82	2.15	2.27	3.29	.49	.73	4.66	3.29	29.33
1896.....	1.49	1.56	3.20	.59	2.17	2.70	7.40	3.70	5.00	2.29	3.29	1.09	34.48
1897.....	2.48	5.27	9.89	3.08	2.46	1.87	3.71	1.91	.64	.46	6.80	2.32	43.89
1898.....	7.76	2.21	6.70	1.15	3.03	1.58	3.26	2.61	2.62	2.90	2.69	2.46	38.97
Avg. 1835-1898.	3.18	3.41	3.72	3.37	4.08	4.45	4.13	3.83	3.02	2.74	3.34	3.49	42.82
Avg. 1835-1897.	3.11	3.44	3.67	3.41	4.12	4.50	4.14	3.85	3.03	2.74	3.36	3.51	42.89
Avg. 1835-1896.	3.12	3.41	3.57	3.41	4.14	4.55	4.08	3.88	3.07	2.77	3.32	3.53	42.87
Avg. 1835-1895.	3.35	3.42	3.52	3.38	4.12	4.50	3.96	3.85	2.95	2.77	3.18	3.49	42.56
Avg. 1835-1894.	3.30	3.47	3.56	3.39	4.16	4.54	3.99	3.86	2.99	2.81	3.16	3.49	42.78

STAGES OF THE OHIO RIVER.

Highest, lowest and average Stages of the Ohio River, at Cincinnati, each year indicated, with the highest Stage during the floods of 1832 and 1847:

CALENDAR YEARS.	HIGHEST STAGE.		LOWEST STAGE.		AVERAGE FOR THE YEAR.
	DATE.	Feet. Inch.	DATE.	Feet. Inch.	Feet. Inch.
1832.....	February 18.	64 8	.....	.....	.....
1847.....	December 17.	63 7	.....	.....	.....
1861.....	April 19.	49 5	July 13.	5 1	19 1
1862.....	January 24.	57 4	October 31.	2 4	17 5
1863.....	March 12.	42 9	October 6.	2 6	15 8
1864.....	December 28.	45 1	August 6.	8 1	16 8
1865.....	March 7.	56 3	October 19.	5 8	21 10
1866.....	September 26.	42 6	August 17.	4 9	19 2
1867.....	March 14.	55 8	October 19.	8 1	17 8
1868.....	March 30.	48 3	July 21.	5 1	18 8
1869.....	April 2.	48 9	August 21.	5 4	19 8
1870.....	January 19.	55 3	October 4.	3 10	17 10
1871.....	May 18.	40 6	October 12.	2 8	11 10
1872.....	April 13.	41 9	October 14.	3 8	11 8
1873.....	December 18.	44 5	October 12.	3 8	18 5
1874.....	January 11.	47 11	September 22.	2 4	15 8
1875.....	August 6.	55 4	September 19.	4 3	18 9
1876.....	January 29.	51 9	September 4.	6 2	18 2
1877.....	January 20.	53 9	October 9.	3 3	15 9
1878.....	December 15.	41 4	October 24.	4 4	16 9
1879.....	December 27.	42 9	October 23.	2 6	14 6
1880.....	February 17.	58 2	October 28.	3 9	17 7
1881.....	February 16.	50 7	September 18.	1 11	16 11
1882.....	February 21.	58 7	November 1.	6 1	*22 1½
1883.....	February 15.	66 4	September 21.	3 7	*19 6½
1884.....	February 14.	71 ¾	September 21.	2 9	*17 4
1885.....	January 20.	46 8	September 26.	2 6	*15 7
1886.....	April 9.	55 9	November 1.	3 4	*17 10
1887.....	February 5.	56 8	September 23.	2 8	*15 1½
1888.....	April 1.	39 11	August 7.	5 3	*17 11
1889.....	February 22.	38 3	September 13.	5 3	*18 6
1890.....	March 26.	59 2	August 30.	5 9	*25 8
1891.....	February 25.	57 4	October 7.	4 5	*20 6
1892.....	April 25.	43 8	November 5.	3 5	*16 6
1893.....	February 20.	54 11	August 30.	3 7	*17 8
1894.....	February 15.	35 6	September 14.	3 1	*12 9
1895.....	January 14.	48 4	October 23.	2 3	*12 2
1896.....	April 4.	47 8	September 25.	5 5	*16 7
1897.....	February 25.	61 2	October 18.	3 1	*16 5
1898.....	March 29.	61 4	October 6.	4 5	*19 7

* Prepared from the Stages as shown by the Water-works marks daily at 6 A. M. and 6 P. M.; the previous years having been made from one daily observation, at 6 A. M., excepting 1883 and 1884.

RAINFALL IN THE OHIO VALLEY.

Annual Rainfall at various points in the Ohio Valley, prepared from reports of the U. S. Weather Bureau, in inches and hundredths of an inch:

POINTS.	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898
Pittsburgh	41.96	39.89	41.37	50.61	38.28	32.66	37.84	28.17	27.50	44.35	35.08	35.76
Cincinnati	35.08	34.84	30.92	47.70	38.44	31.95	44.00	26.54	29.33	34.48	43.89	38.97
Louisville	34.15	47.84	35.02	50.51	43.44	38.13	43.93	38.06	38.86	48.22	43.96	51.00
Cairo	26.75	41.90	37.68	55.41	39.56	38.71	48.79	30.51	33.57	39.36	44.10	48.66
Columbus, O. .	30.25	35.00	28.50	52.42	42.05	33.54	38.12	29.49	30.74	40.53	41.15	41.31
Indianapolis .	33.08	41.36	28.41	50.73	38.23	39.77	39.35	31.13	33.54	39.84	42.15	44.10
Chattanooga .	51.07	54.87	49.31	54.87	58.73	62.68	47.46	37.22	46.36	37.77	45.29	40.47
Memphis	42.52	46.82	44.67	68.28	51.31	61.46	44.45	54.52	38.59	35.00	46.03	48.58
Nashville	48.40	50.49	42.01	59.97	52.82	50.02	46.30	41.96	42.83	40.21	44.03	50.02

CINCINNATI PROPERTY VALUATION AND TAXATION.

Valuation of Real and Personal Property, Rate of Taxation and Amount of Tax Revenues, of Cincinnati, for forty-two years :

YEARS.	Real Estate.	Personalty.	Amount of Levy.	Amount of Revenue.	YEARS.	Real Estate.	Personalty.	Amount of Levy.	Amount of Revenue.
1857.....	\$61,340,971	\$25,104,120	1.50	\$1,290,676 00	1878.....	\$129,043,880	\$43,830,188	2.854	\$4,933,825 00
1858.....	62,681,602	26,061,151	1.66	1,422,968 00	1879.....	128,473,130	40,832,506	2.898	4,908,096 00
1859.....	63,746,316	29,292,789	1.64	1,584,110 00	1880.....	129,956,980	37,578,376	3.10	5,193,596 00
1860.....	61,428,917	30,582,458	1.74	1,666,231 00	1881.....	120,045,230	41,359,163	2.22	3,583,177 34
1861.....	62,077,837	30,813,411	1.925	1,833,954 00	1882.....	121,897,090	45,089,015	2.38	3,977,608 90
1862.....	63,503,296	29,707,861	1.76	1,647,513 00	1883.....	122,874,790	46,859,127	2.06	3,456,115 72
1863.....	64,441,532	35,982,561	1.826	1,826,908 00	1884.....	124,625,370	44,908,822	2.556	4,333,293 94
1864.....	65,585,774	47,809,674	2.02	2,290,586 00	1885.....	127,454,100	42,632,868	2.896	4,568,535 96
1865.....	67,610,611	63,135,382	2.29	2,994,083 00	1886.....	129,378,370	42,571,661	2.544	4,874,408 79
1866.....	66,454,662	67,218,101	2.16	2,887,331 00	1887.....	130,730,870	43,806,977	2.768	4,831,207 60
1867.....	68,569,040	68,412,285	2.74	3,753,288 00	1888.....	133,279,580	41,499,080	2.702	4,722,542 36
1868.....	69,799,604	61,583,925	2.80	3,678,738 00	1889.....	134,872,270	39,964,970	2.690	4,685,638 03
1869.....	72,243,844	58,471,666	3.19	4,169,824 00	1890.....	137,121,460	40,651,780	2.666	4,739,434 58
1870.....	78,736,482	57,370,754	3.16	4,300,968 00	1891.....	142,160,280	42,832,840	2.840	5,254,040 33
1871.....	123,427,888	56,934,044	2.22	4,004,034 00	1892.....	144,208,810	44,735,670	2.740	5,177,078 75
1872.....	119,621,886	55,462,410	2.01	3,519,194 00	1893.....	144,424,970	44,326,380	2.724	5,141,586 77
1873.....	121,479,280	64,166,460	2.306	4,280,990 00	1894.....	146,052,770	42,076,770	2.832	5,327,828 57
1874.....	123,231,790	58,718,284	2.338	4,253,992 00	1895.....	147,926,860	40,538,020	2.814	5,308,401 72
1875.....	125,976,835	58,521,730	2.482	4,579,254 00	1896.....	157,713,240	40,823,340	2.640	5,241,365 71
1876.....	127,143,900	56,809,666	2.704	4,976,616 00	1897.....	157,932,110	38,886,090	2.618	5,152,700 48
1877.....	128,820,270	50,609,872	2.91	5,250,587 39	1898.....	159,525,490	40,213,590	2.580	5,868,435 88

TEMPERATURE RECORDS AT CINCINNATI.

Maximum and minimum records of Temperature, at Cincinnati, the annual mean and annual range, and greatest daily range, in degrees Fah., as prepared for the Chamber of Commerce from records of the Weather Bureau, by S. S. BASSLER, Local Forecast Officer:

YEARS.	Maximum.	DATES.	Minimum.	DATES.	Mean.	Range.	Greatest Daily Range.
1871.....	97	July 9.	0	December 21.	55.2	97	..
1872.....	96	August 25, 26.	- 8	December 22.	54.4	104	30
1873.....	95	June 23.	1	Jan. 30, Mch. 4.	55.0	94	87
1874.....	103	July 7.	6	November 30.	57.0	97	34
1875.....	96	July 17.	- 7	January 10.	53.0	103	36
1876.....	96	July 11, 18, 19.	- 6	December 9.	55.2	102	36
1877.....	92	Jun. 18, Jul. 8, 15.	- 4	January 9.	56.2	96	31
1878.....	96	July 11, 17, 18.	- 1	December 24.	57.0	97	36
1879.....	98	July 11, 16.	-10	January 3.	56.2	108	41
1880.....	96	July 13.	- 5	Dec. 29, 30.	56.8	101	32
1881.....	104	July 10.	2	January 1.	57.7	102	31
1882.....	96	June 25.	1	December 8.	56.9	96	36
1883.....	94	July 22.	6	January 22.	55.3	88	36
1884.....	93	June 22.	-10	January 5.	56.0	103	87
1885.....	97	July 20.	-10	Feb. 11, 21.	51.0	107	87
1886.....	95	July 29.	-12	January 11.	52.5	107	36
1887.....	101	July 18.	- 5	January 3.	55.3	106	44
1888.....	97	August 3.	6	February 27.	53.4	91	38
1889.....	92	July 9, Sept. 1.	6	February 23.	54.8	86	38
1890.....	96	June 28.	7	March 6.	66.4	89	39
1891.....	92	August 9.	4	February 4.	54.7	88	38
1892.....	98	July 24.	2	December 27.	53.3	96	34
1893.....	95	July 30.	-11	January 15.	53.7	106	84
1894.....	96	August 9.	- 4	January 25.	56.1	100	35
1895.....	97	June 3.	-12	February 8.	53.6	109	43
1896.....	96	August 6.	- 2	February 20.	55.6	98	87
1897.....	98	July 4.	-10	January 25.	55.3	108	38
1898.....	98	July 3.	1	February 3.	55.9	97	41
1899.....	..	.....	-17	February 9.	....	..	..

Mark (—) as indicated, means below zero.

OHIO RIVER BRIDGES.

Statement showing the Names, Kinds, Lengths, Channel Spans, etc., of the various Bridges over the Ohio River, January 1, 1899, as prepared by MAJOR WM. H. BIXBY, Corps of U. S. Engineers:

DISTANCE BELOW PITTSBURGH.	MILES	NAME OF BRIDGE.	KIND.	LENGTH.		CHANNEL SPANS.				DRAW SPANS.	Height of Flood of 1882 Above Low Water.
				Over Ohio River.	Includ- ing Ap- proaches	WIDTH AT LOW WATER.	HEIGHT.				
							Above Low Water.	Above High Water of 1882.			
				FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.
0		Point, at Pittsburgh	Highway	1,060	1,060	780	.....	73.3	38.72	.....	34.00
2		Ohio Connecting Railway	Railroad	3,132	4,470	508.5	1400	83.5	49.35	.....	38.57
25		Rochester	Highway	1,616	2,316	782	.....	90.0	.....	.....	43.00
26		Beaver	Railroad	1,346	2,486	426	.....	88.9	45.87	.....	43.86
44		East Liverpool	Highway	1,485	1,665	692	.....	90.0	.....	.....	46.00
67		Steubenville	Railroad	1,895.4	1,895.4	303	.....	89.6	45.30	.....	47.35
89		Wheeling and Martins Ferry	Railroad	1,502.3	2,099	500	.....	91.66	48.12	.....	51.12
90		Wheeling (Suspension)	Highway	980	980	980	.....	91.5	48.00	.....	51.12
90		Wheeling	Highway	997	1,816	506.8	.....	90.7	47.20	.....	51.12
94		Bellaire	Railroad	1,485.5	4,001.5	322	.....	90.0	46.50	.....	51.12
183		Parkersburg	Railroad	1,540	4,200	326.5	326.5	90.0	40.50	.....	52.00
263		Point Pleasant	Railroad	1,870	4,920	400	.....	91.4	38.60	.....	60.44
313		Kenova	Railroad	1,781	3,789	500	.....	98.0	40.00	.....	63.00
466		Newport and Cincinnati	R. R. and Highway	1,648.6	{ 3,694 2,788.9	1490	.....	102.2	39.85	.....	69.14
466½		Newport and Cincinnati	Highway	1,582	2,640.5	501.8	.....	{ 102.4 108.2 145.85 92.4 30.05 139.45	{ 40.05 40.05 40.05 40.05 40.05 40.05	.....	69.14
466½		Covington and Cincinnati	Highway	1,619	1,619	1,005	.....	{ 101.8 106.1	{ 39.45 43.75	.....	69.14
467		Chesapeake and Ohio	R. R. and Highway	1,580	4,312	524.3	.....	103.8	40.95	160	69.14
468½		Cincinnati Southern	R. R. with Footway	1,489	3,822	500	.....	92.8	53.00	.....	44.07
597½		Louisville and Jeffersonville	R. R. with Footway	2,545	9,358	535.4	{ 533.4 533.4	96.5	45.10	114	56.50
599		Ohio Falls	R. R. with Footway	5,220	5,220	380	952.5	106.5	40.00	160	71.00
602		Kentucky and Indiana	R. R. and Highway	2,453	7,280	464	1461	101.3	55.00	.....	37.80
794½		Henderson	Railroad	2,519	3,624	500	.....	105.2	.....	.....	53.82
963		Calro	Railroad	4,895	20,246	503	503	.....	.....	.....	.....

* Middle chute.

† North of Sand Island.

‡ At middle of channel span.

§ Back channel.

! Above high water of 1867.

¶ When new bridge is completed and old pier removed.

° Approximate height at center of new channel span.

MANUFACTURES OF THE CITY OF CINCINNATI.

Table showing the Cash Capital Invested, the Value of Real Estate Occupied, and the Number of Hands Employed, in the various classes of Manufactures in the city of Cincinnati and immediate vicinity, together with the aggregate Value of Production, and the Number of Establishments Engaged in each, in 1890:

CLASS OF MANUFACTURES.	Year ending July 1, 1890.				
	No. of Establishments.	Cash Capital Invested.	Value of Real Estate Occupied.	Number of Hands Employed.	Value of Production.
Agricultural Implements.....	5	\$225,000	\$164,000	328	\$397,400
Ale and Porter (see Malt Liquors).....	..	..	..	..	..
Alcohol (see Distilled Liquors).....	..	..	..	..	..
Artificial Limbs and Trusses.....	15	54,500	63,000	94	99,450
Awnings and Tents.....	11	36,765	68,810	116	120,460
Baggage Checks (Included with Stencils and Dies).....	..	..	..	..	..
Baking Powder and Yeast.....	22	194,000	131,000	205	607,230
Beer (see Malt Liquors).....	..	..	..	..	..
Bellows and Forges.....	4	17,000	19,000	31	27,900
Bells.....	2	51,000	44,000	101	204,900
Billiard Tables.....	4	130,400	106,400	161	389,625
Blacking (see Ink).....	..	..	..	..	..
Blacksmithing.....	198	335,000	374,000	1,109	879,420
Blinds, Venetian (see Window Shades).....	..	..	..	..	..
Bollers.....	6	194,510	101,000	184	355,000
Bolts and Nuts (see Iron).....	..	..	..	..	..
Book Binding and Blank Books.....	44	294,500	361,700	740	532,261
Book and Newspaper Publishing.....	136	4,155,386	2,368,130	3,921	6,142,189
Boots and Shoes.....	597	1,928,419	2,013,435	4,569	6,589,920
Boxes, Cigar.....	8	115,000	90,600	394	315,300
Paper.....	13	80,000	78,000	265	243,890
Wooden (Packing).....	11	203,600	141,000	297	384,700
Brackets and Hat Racks.....	8	115,000	98,450	301	371,605
Brass Founding and Finishing.....	26	319,736	217,500	510	799,800
Bread, Crackers, etc.....	409	1,271,223	1,792,981	2,966	4,163,113
Brick.....	55	370,000	294,175	565	791,000
Bricklaying.....	124	301,000	64,000	692	2,410,000
Bristles (see Curled Hair).....	..	..	..	..	..
Britannia Ware.....	1	45,000	18,000	34	87,300
Brooms.....	11	49,000	42,000	147	125,900
Brushes and Wire Goods.....	15	178,000	82,000	580	316,400
Building Materials (exclusive of Brick and Stone).....	33	1,621,000	742,500	1,851	3,971,840
Bungs and Faucets.....	6	274,000	198,200	173	204,615
Burial Cases, Coffins and Hearses.....	6	961,700	485,000	1,153	2,147,600
Candles, Soaps and Oils.....	36	4,750,000	3,445,000	1,757	10,616,000
Candy and other Confections.....	46	370,805	557,820	689	1,721,124
Canned Goods.....	7	210,300	118,500	386	526,500
Carpentering.....	279	647,900	384,000	2,685	4,110,170
Carpets.....	31	16,000	17,540	98	72,150
Carriages and Buggies.....	82	2,650,000	1,970,000	5,310	9,826,540
Carriage and Wagon Materials.....	22	630,000	274,500	824	1,615,890
Castings (see Iron).....	..	..	..	..	..
Cement, Lime and Plaster.....	6	40,000	16,000	120	100,000
Cement Felting.....	2	4,000	2,000	25	15,000
Chairs and Sofas.....	28	260,000	146,000	672	694,600
Charcoal, Fuel and Ground.....	10	..	..	80	50,000
Chemicals (see Drugs).....	..	..	..	..	..
Children's Carriages, Hobby Horses, etc.....	3	61,000	83,400	110	155,000
Cider (included with Vinegar).....	..	..	..	..	..
Cigars (see Tobacco).....	..	..	..	..	..
Cloaks, Mantillas, Dress Trimmings, etc.....	32	416,000	294,000	2,971	1,943,000
Clothing and Gents' Furnishing Goods.....	470	13,874,158	5,231,606	19,354	21,770,001
Coffins (see Burial Cases).....	..	..	..	..	..
Coke.....	2	46,000	51,000	54	194,500
Coloring, Dyeing and Laundry Work.....	110	219,000	328,000	772	450,500
Cooperage.....	46	391,000	274,000	1,115	1,139,820
Copper Ware.....	8	40,000	37,300	94	190,320

MANUFACTURES OF THE CITY OF CINCINNATI—Continued.

CLASS OF MANUFACTURES.	Year ending July 1, 1890.				
	No. of Establishments.	Cash Capital Invested.	Value of Real Estate Occupied.	Number of Hands Employed.	Value of Production.
Cordage.....	7	\$440,120	\$171,200	351	\$1,889,944
Corsets (see Hoop Skirts).....	..	..	..	..	..
Cotton Goods.....	6	372,000	398,700	479	748,000
Curled Hair and Bristles.....	5	185,000	79,000	162	319,000
Cutlery and Edge Tools.....	12	72,000	68,920	94	217,300
Dental Work.....	131	165,800	262,000	262	461,400
Drain Pipe.....	2	9,000	11,000	21	22,700
Drugs, Chemicals and Glycerine.....	18	816,759	459,600	213	1,952,745
Earthenware and Queensware.....	7	122,000	135,000	261	274,700
Edge Tools (see Cutlery).....	..	..	..	..	..
Enameled Iron Ware and Show Cards.....	4	52,000	50,000	115	178,000
Engraving, Glass.....	41	64,700	68,300	194	271,450
Metal.....					
Wood.....					
Excelsior (see Boxes).....	9	301,300	219,000	131	317,430
Fertilizers.....	4	37,000	29,000	65	76,400
Files.....	15	361,732	315,400	380	643,500
Fire Alarm Telegraph and Electrical Apparatus.....	7	19,200	16,400	43	37,700
Fire Arms, etc.....	3	22,000	9,000	41	35,000
Fire Brick, Tile, Clay, etc.....	8	33,000	24,000	91	109,000
Fire Works and Explosives.....	13	16,000	24,500	65	45,000
Fire Wood and Kindling.....	4	49,000	31,000	103	142,000
Flags and Banners.....	7	31,000	26,500	72	64,000
Flavoring Extracts.....	16	223,000	271,000	144	1,291,305
Flour and Meal.....	..	..	..	..	..
Flour Sacks (see Paper).....	55	149,000	370,000	234	271,900
Flowers and Floral Work.....	3	45,000	36,500	68	154,300
Foundry Facings.....	18	558,114	371,350	615	802,629
Frames and Mouldings.....	134	2,971,000	2,242,850	3,213	7,349,000
Furniture.....	7	80,000	69,000	94	380,237
Furs and Gloves.....	39	318,835	399,100	479	1,164,968
Galvanized and Sheet Iron Work.....	1	6,500,000	1,800,000	540	1,292,700
Gas.....	6	97,000	59,000	161	384,000
Gas Meters, Machinery, etc.....	5	170,000	127,000	350	338,500
Glassware.....					
Glass, Stained and Ground.....					
Gloves (see Furs).....	4	161,000	79,000	98	268,300
Glue.....	2	16,500	10,000	28	54,000
Glycerine (see Drugs, Chemicals, etc.).....	2	65,000	45,000	80	89,400
Gold and Silver Foil.....	..	..	..	..	..
Gold Pens, Pencil Cases, etc.....	12	130,000	64,500	76	494,300
Grates (see Mantels and Grates).....	..	..	..	..	..
Grease and Tallow.....	14	725,000	224,000	635	1,142,230
Hair Goods (see Wigs).....	66	823,748	706,160	1,067	3,393,647
Hardware.....	15	42,190	67,280	168	140,858
Harness and Saddlery.....	..	..	..	..	..
Hats and Caps.....	1	5,000	3,000	12	12,000
Hearse (included with Burial Cases).....	..	..	..	..	..
Hollow Ware (see Stoves).....	..	..	..	..	..
Hoop Skirts and Corsets.....	19	415,945	175,000	739	694,820
Horse Collars and Hames (see Harness and Saddlery).....	6	416,860	509,340	691	547,000
Hose (see Leather Belting).....	10	243,700	98,000	132	695,000
Hosiery.....	15	44,000	48,000	75	85,500
Ice.....	7	20,000	30,000	30	30,000
Ink and Blacking.....	5	225,000	174,000	400	512,430
Instruments, Astronomical, Engineering, etc.....	23	1,222,610	370,000	1,106	1,943,605
Musical.....	10	1,854,000	870,000	2,217	5,726,891
Iron, Bolts and Nuts.....	19	735,600	514,000	703	1,741,700
Castings, not otherwise specified.....	..	..	..	..	..
Forged and Rolled, exclusive of Blacksmithing.....	..	..	..	..	..
Wrought (Railing, Jail Work, Barbed Wire, etc.).....	85	1,172,210	578,714	716	1,741,000
Japan (see Varnish).....	..	..	..	..	..
Jewelry and Silver Ware.....	4	5,700	3,200	13	9,400
Lard.....	8	219,460	94,000	72	431,000
Lards and Hat Blocks.....	18	2,964,165	1,375,850	1,007	4,344,410
Lead, Sheet and Pipe.....	4	74,000	55,000	65	294,100
Leather.....	8	28,000	18,700	19	114,500
Leather Belting and Hose.....	..	..	..	..	..
Lightning Rods.....	9	2,149,000	575,000	287	9,424,761
Lime (see Cement).....	39	8,302,602	6,582,488	1,832	9,349,887
Liquors, Distilled.....	58	1,942,170	642,000	355	9,427,480
Malt.....	7	65,400	85,500	24	225,000
Rectified.....	..	..	..	..	..
Wine.....	..	..	..	..	..

MANUFACTURES OF THE CITY OF CINCINNATI—Continued.

CLASS OF MANUFACTURES.	Year ending July 1, 1890.				
	No. of Establishments.	Cash Capital Invested.	Value of Real Estate Occupied.	Number of Hands Employed.	Value of Production.
Lithographing.....	17	\$461,500	\$394,700	479	\$981,800
Locks and Locksmithing.....	35	454,000	161,000	298	713,790
Lumber (included with Building Materials).....					
Machinery, including Steam Gauges.....	81	2,434,600	1,494,000	2,113	5,941,600
Malt, exclusive of that manufactured by Brewers.....	15	634,000	401,000	151	1,153,700
Malt Kilns.....	4	29,000	85,100	54	61,000
Mantels and Grates.....	9	512,383	227,200	437	675,416
Maps.....	3	12,000	9,400	44	39,000
Marble Work (see Stone).....					
Mattresses and Bedding.....	48	129,000	98,000	234	386,000
Millinery and Dressmaking.....	984	1,094,216	831,000	2,947	2,106,530
Mill Stones and Portable Mills.....	5	225,000	222,000	218	385,400
Mineral Water.....	19	95,400	101,000	149	227,625
Mucilage (included with Ink).....					
Neck Ties, Ruffling, etc.....	6	27,400	88,600	222	161,600
Oils (see Candles, etc.).....					
Ornamental Plaster.....	3	5,000	7,600	38	26,000
Paints (see White Lead).....					
Paper, Printing, Wrapping, etc.....	34	1,741,200	2,143,600	1,891	4,228,590
Bags, Flour Sacks and Envelopes.....	9	248,000	135,000	264	1,098,400
Collars, Novelties, etc.....	7	11,600	14,000	61	35,700
Hangings.....	42	155,000	131,600	341	596,400
Painting, Fresco, House and Sign.....	173	228,950	288,955	794	945,620
Patent Medicines.....	29	464,000	198,700	104	614,500
Patterns and Models.....	24	49,000	47,600	93	74,760
Photographs.....	53	91,000	143,000	201	254,400
Plastering.....	69	74,050	16,700	419	264,000
Pocket Books (see Paper Novelty).....					
Printing, Job.....	105	499,000	371,900	854	897,800
Provisions.....	165	2,940,700	2,107,000	1,638	12,135,415
Pumps and Plumbing.....	134	361,000	519,000	654	1,297,436
Putty (included with White Lead, etc.).....					
Railway Materials and Supplies.....	13	534,000	541,600	497	1,941,650
Ranges and Warm Air Furnaces.....	11	173,600	151,400	201	494,620
Refrigerators, Ice Boxes, etc.....	9	98,000	61,000	146	124,500
Regalia and Costumes.....	7	895,925	173,400	519	774,640
Roofing Materials.....	16	162,209	97,270	287	390,676
Rubber Moldings and Stamps.....	12	19,000	13,500	43	27,540
Saddlery (see Harness).....					
Safes and Bank Locks.....	7	1,574,563	752,939	1,946	3,426,329
Sawst.....	6	214,000	115,000	264	327,600
Scales and Trucks.....	5	51,000	39,000	50	47,500
Seal Presses and Canceling Stamps.....	6	22,000	18,000	61	43,456
Sealing Wax.....	1	2,500	2,500	9	6,500
Sewing Machine Outfits (see Machinery).....					
Shipping Tags (see Job Printing).....					
Shoes (see Boots and Shoes).....					
Show Cases.....	18	330,000	191,700	435	501,700
Silk, Manufactures of.....	3	25,500	24,000	116	100,140
Silver Plating.....	13	89,000	67,000	178	231,600
Silver Ware (see Jewelry).....					
Soap (see Candles and Soap).....					
Spices, Mustard, etc.....	14	613,112	154,840	207	2,319,355
Stair Building.....	15	64,000	71,000	165	213,700
Starch.....	2	217,925	350,000	234	925,000
Steamboats and Barges.....	3	104,000	100,000	45	135,500
Steam Gauges (see Machinery).....					
Steam Heating Apparatus.....	16	81,500	71,200	184	176,700
Steel Springs.....	4	35,000	26,400	78	76,450
Stencils, Dies and Checks.....	12	39,000	28,500	89	84,300
Stone and Marble Work.....	69	921,000	622,000	1,455	1,571,940
Stoves and Hollow Ware.....	9	1,130,000	563,000	858	1,093,400
Tallow (see Grease and Tallow).....					
Tin Ware and Tinnerns' Supplies.....	107	831,000	325,174	650	1,119,000
Tobacco, Cigars and Cigarettes.....	481	1,471,340	1,009,621	2,979	4,764,410
Fine-cut, Plug, Smoking and Snuff.....	21	534,000	491,000	579	894,300
Trunks and Valises.....	12	192,725	194,100	358	496,963
Trusses and Braces (see Artificial Limbs).....					
Type, Presses and Printing Materials.....	6	262,000	194,000	364	535,000
Umbrellas and Parasols.....	13	94,000	98,000	134	216,900
Valises (see Trunks).....					
Varnishes and Japans.....	14	433,405	188,900	156	991,900
Veneers, etc.....	3	400,000	140,000	179	535,280
Vermicelli, Macaroni and Chocolate.....	4	14,600	15,900	27	38,540

MANUFACTURES OF THE CITY OF CINCINNATI—Continued

CLASS OF MANUFACTURES.	Year ending July 1, 1890.				
	No. of Establishments.	Cash Capital Invested.	Value of Real Estate Occupied.	Number of Hands Employed.	Value of Production.
Vinegar and Cider.....	15	\$112,000	\$59,450	116	\$331,600
Wagons, Carts, etc.....	108	541,260	314,700	912	1,471,710
Washing Machines (see Wooden Ware).....	..	.....	.....	.....	.....
Whisky (see Liquors).....	..	.....	.....	.....	.....
White Lead, Colors, Paints and Putty.....	13	1,670,000	600,000	417	1,941,940
Wigs and Hair Goods.....	28	68,500	90,200	141	116,900
Willow Ware.....	14	27,400	18,500	61	59,600
Window Shades, Venetian Blinds, etc.....	7	82,000	24,600	53	51,226
Wines (see Liquors).....	..	.....	.....	.....	.....
Wire Goods (see Brushes).....	..	.....	.....	.....	.....
Woolen and Worsted Goods.....	5	428,825	140,300	264	617,644
Wooden Ware.....	20	187,700	160,000	371	430,000
Wood Turning and Carving.....	19	61,000	50,500	101	106,000
Wringing Machines (see Wooden Ware).....	..	.....	.....	.....	.....
Miscellaneous Industries.....	164	1,467,000	971,900	1,669	2,731,500
Miscellaneous Industries of Hamilton County, outside of the city limits, not included in above.....	1,292	1,643,800	991,416	3,419	5,261,060
Total, Cincinnati and immediate vicinity.....	8,667	\$106,599,037	\$65,982,264	115,944	\$236,162,060

* Estimated.

† Preceding year's report.

‡ Hands included with provisions.

MANUFACTURING INDUSTRY COMPARISONS.

Value of Products of the Manufacturing Industries of Cincinnati, and the Number of Hands Employed, for years indicated:

VALUE OF PRODUCTS OF MANUFACTURES.

CLASSIFICATION.

	1840	1850	1860	1870	1880	1885	1886	1887	1890
Iron.....	\$1,728,594	\$4,143,900	\$5,305,006	\$20,804,253	\$19,368,719	\$25,494,273	\$26,198,855	\$26,966,999	\$30,422,139
Other Metals.....	658,040	1,209,190	1,464,738	3,873,356	5,478,567	6,890,563	7,376,709	7,674,160	8,265,122
Wood.....	2,086,857	4,143,900	5,896,183	12,699,165	14,204,244	20,970,712	19,771,763	20,440,182	22,196,450
Leather.....	1,068,750	2,675,150	2,823,234	7,227,324	11,338,755	11,283,389	10,634,255	10,484,425	15,118,040
Food.....	5,269,617	14,473,562	7,425,651	17,945,651	20,668,153	20,717,662	23,911,946	23,526,858	26,092,023
Soap, Candles and Oils.....	433,940	1,503,000	3,222,293	7,435,861	8,317,662	10,946,400	10,636,300	11,165,200	11,110,300
Clothing.....	2,009,850	4,325,500	6,381,821	12,626,682	18,696,844	21,742,427	22,029,928	23,202,769	26,631,789
Liquors.....	307,500	5,240,930	4,891,821	16,361,006	26,647,000	27,642,310	28,125,246	29,012,711	30,580,828
Cotton, Wool, Hemp, etc.....	411,190	1,181,000	746,068	1,854,774	1,592,013	1,740,340	2,099,624	2,258,963	3,385,696
Drugs, Chemicals, etc.....	438,250	2,018,200	860,840	3,644,185	4,425,532	4,859,060	5,356,360	4,972,730	6,500,085
Stone and Earth.....	258,300	713,000	880,183	2,980,102	2,539,510	3,200,610	3,356,360	4,913,150	6,310,140
Carriages, Cars, etc.....	117,000	507,447	333,168	780,516	4,116,328	5,870,597	6,068,508	11,109,860	13,660,140
Paper.....	669,600	1,860,540	1,531,170	636,700	341,733	3,357,713	4,907,603	3,984,724	6,522,940
Book Binding and Blank Books.....	.....	.....	1,531,170	636,700	341,733	3,357,713	4,907,603	3,984,724	6,522,940
Printing and Publishing.....	.....	.....	1,531,170	636,700	341,733	3,357,713	4,907,603	3,984,724	6,522,940
Tobacco.....	179,100	56,200	109,750	4,699,280	5,339,030	3,100,037	3,462,628	3,756,868	5,063,710
Fine Arts.....	700,920	.....	.....	5,540,746	826,827	911,457	874,386	1,046,250	1,467,130
Miscellaneous.....	.....	3,292,416	5,697,427	8,181,266	9,263,188	11,290,597	11,174,375	15,480,516	.....
Totals.....	\$16,366,443	\$46,189,279	\$46,995,062	\$127,459,021	\$163,851,497	\$190,722,153	\$198,257,029	\$203,459,396	\$236,162,060

NUMBER OF HANDS EMPLOYED IN MANUFACTURING.

CLASSIFICATION.

	1840	1850	1860	1870	1880	1885	1886	1887	1890
Iron.....	1,250	6,075	10,647	12,363	16,904	17,551	18,098	18,547	18,514
Other Metals.....	466	921	1,051	1,809	2,564	3,372	4,127	4,260	4,260
Wood.....	1,426	3,798	5,022	7,597	9,646	11,727	11,516	12,694	12,694
Leather.....	888	2,472	2,499	4,647	5,553	6,805	7,502	7,557	6,683
Food.....	1,567	3,962	1,010	2,334	4,366	5,468	5,218	6,007	4,990
Soap, Candles and Oils.....	142	750	362	1,122	1,272	1,069	1,050	1,560	1,542
Clothing.....	1,217	3,198	10,647	12,363	16,904	17,551	18,098	18,547	18,514
Liquors.....	110	963	615	2,301	1,841	1,854	1,964	1,998	1,842
Cotton, Wool, Hemp, etc.....	359	890	557	1,035	1,272	1,136	1,273	1,436	1,495
Drugs, Chemicals, etc.....	114	394	240	735	701	719	700	625	839
Stone and Earth.....	301	841	933	2,209	2,569	2,861	3,060	3,241	3,394
Carriages, Cars, etc.....	87	498	740	1,175	1,558	1,863	2,158	2,429	2,554
Paper, etc.....	512	1,073	77	452	1,999	1,743	2,158	2,528	2,554
Book Binding and Blank Books.....	1,046	2,598	519	514	561	556	614	614
Printing and Publishing.....	1,046	2,598	519	514	561	556	614	614
Tobacco.....	139	393	92	250	340	3,969	3,896	3,896	3,896
Fine Arts.....	462	2,289	556	4,177	2,421	3,853	3,112	3,124	3,172
Miscellaneous.....	5,733	6,782	6,183	6,064	7,553
Totals.....	9,040	28,527	30,268	59,827	64,709	80,839	86,393	91,761	88,488
Totals.....	9,040	28,527	30,268	59,827	64,709	80,839	86,393	91,761	88,488
Totals.....	9,040	28,527	30,268	59,827	64,709	80,839	86,393	91,761	88,488
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Totals.....	9,040	28,527	30,268	59,827	64,709	80,839	86,393	91,761	88,488
Totals.....	9,040	28,527	30,268	59,827	64,709	80,839	86,393	91,761	88,488
Totals.....	9,040	28,527	30,268	59,827	64,709	80,839	86,393	91,761	88,488
Totals.....	9,040	28,							

WATER TRANSPORTATION OF MISSISSIPPI VALLEY.

Number, tonnage, value and operations of all craft owned on the rivers of the Mississippi Valley, given for rivers and fluvial systems, according to the reports of the U. S. Census Bureau for 1890, as indicated below :

RIVERS	Number.	Tonnage.	Value.	Freight Moved (Tons).	Passengers Carried.
Totals for Mississippi Valley.....	7,453	3,393,379.89	\$15,385,005	29,406,046	10,858,894
Ohio.....	4,868	2,440,881.62	6,967,518	7,770,565	5,115,806
Allegheny.....	82	3,055.84	63,400	365,946	5,819
Monongahela.....	158	22,887.15	449,700	3,294,982	261,387
Muskingum.....	79	8,370.79	58,515	10,281	37,681
Little Kanawha.....	53	4,972.18	80,000	115,657	9,451
Great Kanawha.....	898	412,366.18	645,038	1,145,202	92,124
Big Sandy.....	17	3,937.67	44,000	286,488	11,000
Kentucky.....	8	539.31	22,100	256,950	9,550
Green.....	5	816.68	13,500	819,278	11,200
Wabash.....	3	297.00	10,000	93,178	180
Cumberland.....	37	4,805.57	113,600	974,316	19,160
Tennessee.....	92	18,088.89	298,975	909,078	980,285
Totals for Ohio System.....	6,245	2,920,468.83	8,696,341	16,041,866	6,508,143
Upper Mississippi.....	473	190,663.21	1,699,387	4,486,421	1,478,085
St. Croix.....	26	11,258.35	110,000	846,816	12,304
Chippewa.....	1	108.00	7,000	325,477	4,441
Illinois.....	9	1,860.25	80,200	180,264	50,368
Missouri, Osage and Gasconade.....	104	9,657.84	240,406	1,119,362	276,586
Totals for Upper Mississippi System.....	613	213,547.65	2,136,992	6,968,340	1,821,784
Lower Mississippi.....	515	237,966.07	4,153,622	4,374,761	2,451,315
White.....	6	1,269.71	45,100	86,398	4,183
Arkansas.....	22	2,408.73	67,600	1,663,817	64,716
Yazoo.....	20	3,079.68	79,450	77,380	5,391
Washita.....	3	994.52	45,000	93,707	1,204
Red.....	14	2,218.88	85,700	106,145	7,208
Totals for Lower Mississippi System.....	580	247,957.59	4,478,472	6,401,208	2,534,017
Red River of the North.....	15	11,405.82	25,200	3,637	.....

The Ohio System includes the Ohio, the Allegheny, the Monongahela with its tributaries, the Cheat and the Buckhannon, the Muskingum, the Little Kanawha, the Great Kanawha with its tributaries, the Elk and the Gauley, the Kentucky, the Green with its tributary, the Rough (or Barren), the Big Sandy with its tributaries, the Tug Fork and the Levisa Fork, the Guyandotte, the Cumberland with its tributaries, the Obey and the Caney Fork, the Licking, the Wabash with its tributary, the White (of Indiana), the Tennessee with its tributaries, the Duck, the Clinch, the Hiawasee, the French, Broad and the Little Tennessee.

The Upper Mississippi System includes the Mississippi River from the headwaters of navigation to St. Louis, the St. Croix, the Chippewa, the Illinois, the Wisconsin, and the Fox of Wisconsin, the Minnesota, the Cuivre, the Red Cedar, the Galena, and the Missouri with its tributaries, the Gasconade, the Osage and the Yellowstone.

The Lower Mississippi System includes the Mississippi River from St. Louis to New Orleans, the Forked Deer, the St. Francis, the White of Arkansas with its tributaries, the Current and the Black (of Missouri) and the Little Red, the Big Black, the Big Hatchie, the L'Anguille, the Kaskaskia, the Arkansas with its tributaries, the Fourche la Pave and Le Petit Jean, the Washita with its tributaries, the Little Missouri (of Arkansas), the Saline and the Tensas, the Little (of Missouri), the Yazoo with its tributaries, the Big Sunflower, the Coldwater, Tchula Lake, the Yalobusha and the Tallahatchee, the Red River with its tributaries, the Little (of Louisiana) and the Caney, and the Bayous Bartholomew, Black, Beuf, Courtableau, D'Arbonne, Lafourche, Loggy, Piere, Vidal, Teche, Terrebonne, Cypress and Steeles.

NOTE.—The total amount of freight carried on the Ohio River during the calendar year 1895, according to he reports of the U. S. Engineers, was 7,963,478 tons, and over 500,000 passengers carried by boats. The year was one of an exceptionally long period of low water, and consequent interruption to navigation.

DAILY STAGES OF WATER—Continued.

1898	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
APRIL.																																
Oil City.....	5.8	5.0	...	4.2	3.6	3.5	3.8	3.11	3.0	...	2.7	2.5	2.4	2.2	2.1	2.1	...	2.0	1.9	1.10	2.2	2.5	2.7	...	6.11	6.3	5.9	3.8	3.7	3.5	...	
Brownsville.....	12.3	9.10	...	7.5	6.9	6.3	6.0	5.11	6.1	...	6.2	6.2	6.0	5.11	6.3	5.8	...	12.0	10.5	8.2	6.9	...	6.1	5.10	...	8.11	18.8	17.3	12.0	9.1	7.7	
Pittsburgh.....	13.1	10.6	...	8.0	7.0	6.3	5.5	5.1	4.9	...	4.7	4.7	4.3	4.1	...	5.8	...	8.4	6.5	5.2	4.6	4.2	3.9	...	7.1	13.5	13.4	10.6	8.2	6.6	...	
Wheeling.....	23.0	18.0	...	12.0	10.0	10.0	9.2	8.5	8.0	...	7.8	7.5	7.4	7.3	7.2	7.1	...	11.9	10.8	9.0	8.0	7.4	7.0	...	0.5	12.8	18.2	17.5	13.8	10.9	...	
Radford.....	1.7	1.4	...	0.8	0.7	1.0	0.9	0.7	0.6	...	0.5	0.4	0.4	0.4	0.4	0.4	...	0.9	0.7	0.6	0.5	0.4	0.4	...	0.5	0.4	0.4	0.3	0.3	0.2	...	
Parkersburg.....	26.2	23.6	...	10.0	9.0	9.6	9.4	9.0	8.9	...	9.2	9.0	8.8	8.8	9.0	9.4	...	9.9	11.8	11.0	10.0	9.2	8.8	...	10.4	18.6	19.8	20.3	18.8	15.0	...	
Hinton.....	37.0	32.0	...	7.8	7.0	6.7	6.5	6.5	6.3	...	2.9	5.0	4.2	3.8	4.2	4.5	...	3.7	3.1	2.9	2.7	2.5	2.3	...	2.4	2.8	2.7	2.6	2.4	2.3	...	
Pt. Pleasant.....	19.0	12.0	...	7.8	7.0	6.7	6.5	6.5	6.3	...	6.0	6.8	9.8	8.1	8.7	10.5	...	8.9	7.5	6.9	6.2	5.8	5.5	...	5.8	6.0	6.8	6.8	6.0	5.8	...	
Caletsburg.....	39.0	36.5	...	25.7	20.7	17.4	15.5	14.1	13.0	...	11.0	10.6	11.4	12.6	11.9	12.2	...	13.9	13.9	14.6	13.1	11.6	10.2	...	...	14.3	20.8	23.0	23.1	20.8	...
Portsmouth.....	47.5	45.6	...	34.3	28.8	24.0	21.5	20.0	18.2	...	15.5	15.1	15.8	17.1	17.7	16.5	...	18.5	17.7	18.4	17.1	16.0	14.2	...	...	13.8	22.5	26.1	27.2	26.0	...
Cincinnati.....	56.5	54.1	...	42.5	42.9	37.6	32.3	27.3	25.6	...	24.3	22.0	20.5	19.4	19.3	20.0	20.6	20.4	20.3	21.1	21.3	20.9	20.8	20.1	19.8	18.8	17.0	16.5	20.8	26.3	28.5	
MAY.																																
Oil City.....	...	2.9	2.6	2.6	2.4	2.4	2.8	...	2.7	2.4	2.3	2.5	3.5	2.5	...	2.8	2.7	2.9	2.7	4.9	5.6	...	3.8	3.7	3.5	4.1	3.7	3.4	...	...	2.9
Brownsville.....	...	5.11	5.4	5.1	4.11	4.9	5.0	...	11.5	9.8	7.10	6.7	6.0	5.7	...	6.3	20.6	16.0	10.5	8.2	6.9	6.9	9.4	6.2	7.1	6.2	5.11	...
Pittsburgh.....	...	4.8	4.2	3.9	3.8	3.4	3.2	...	8.1	7.5	6.0	5.0	4.5	5.3	...	5.4	9.9	13.5	9.5	8.0	9.0	8.1	9.9	8.7	7.9	7.1	6.1	...
Wheeling.....	...	8.4	7.6	7.3	7.0	6.8	6.5	...	9.0	10.9	10.0	9.0	8.4	8.9	...	9.3	11.0	6.0	10.8	13.4	11.9	12.9	12.4	13.0	11.8	10.8	10.0	...
Radford.....	...	0.2	0.2	0.2	0.2	0.3	1.3	...	0.8	0.5	0.4	0.3	0.4	0.4	...	0.3	0.2	0.2	0.2	0.2	0.1	0.7	1.0	1.5	1.0	0.8	0.7	...
Parkersburg.....	...	10.5	9.5	9.0	8.7	8.4	8.7	...	9.5	10.5	11.5	10.7	10.3	10.7	...	13.2	16.5	16.3	18.9	18.0	15.7	14.7	14.6	13.6	13.3	12.2	11.0	...
Hinton.....	...	2.0	1.9	1.8	1.8	1.9	7.7	...	4.6	3.6	3.1	2.8	2.6	2.4	...	2.2	2.2	2.4	2.3	2.2	2.1	2.0	5.3	5.0	4.1	3.3	2.8	...
Charleston.....	...	4.9	4.5	4.2	4.1	4.1	7.2	...	11.8	9.0	7.0	6.3	6.0	5.8	...	5.2	...	6.7	6.0	6.0	5.8	5.7	11.5	10.0	8.4	6.9	6.0	...
Pt. Pleasant.....	...	13.9	11.6	9.9	8.8	7.9	8.7	...	16.2	15.4	14.6	14.2	12.8	12.1	...	12.5	14.0	20.0	20.6	21.8	20.3	20.7	21.0	19.6	18.6	17.1	14.9	...
Caletsburg.....	...	9.4	16.2	13.8	12.4	11.1	12.9	...	21.0	21.0	19.3	18.6	17.4	16.0	...	15.7	18.8	22.3	24.6	25.7	25.2	20.7	20.9	24.5	24.1	22.4	20.0	...
Portsmouth.....	...	21.5	18.3	15.7	14.0	12.8	14.4	...	21.8	22.5	21.0	19.9	19.9	18.9	...	17.1	19.0	24.0	26.3	26.4	26.5	22.5	21.1	23.8	24.9	23.5	21.5	...
Cincinnati.....	27.6	27.0	24.4	21.5	19.2	16.9	21.6	22.6	23.3	24.3	25.0	24.1	24.0	22.5	21.3	20.9	20.1	20.6	24.5	27.3	28.0	26.5	27.0	25.0	23.5	24.5	25.8	25.3	24.7	22.4	20.3	
JUNE.																																
Oil City.....	2.6	2.3	2.0	1.10	...	1.9	1.6	1.4	1.3	1.3	1.3	...	1.6	2.0	2.3	...	1.6	1.5	...	1.11	2.0	2.0	2.0	2.0	2.0	1.10	...	1.7	1.6	2.6	3.9	
Brownsville.....	...	4.8	4.8	4.8	...	4.6	4.5	4.3	4.2	4.4	4.4	...	4.11	5.4	6.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pittsburgh.....	...	5.9	5.4	5.0	...	4.8	5.8	5.8	5.7	5.9	5.8	...	6.0	6.4	6.9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wheeling.....	...	7.4	6.4	6.1	5.4	...	5.0	4.5	4.0	3.8	3.9	...	3.7	5.2	7.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Radford.....	...	0.4	0.3	0.3	...	0.2	0.2	0.2	0.1	0.1	0.1	...	0.2	0.2	0.1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Parkersburg.....	...	8.8	8.5	8.0	7.5	...	5.5	5.6	5.5	5.3	5.2	5.5	...	5.8	7.3	7.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hinton.....	...	2.1	2.0	1.8	1.7	...	1.5	1.4	1.4	1.3	1.1	...	1.3	1.8	1.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Charleston.....	...	4.5	4.4	4.5	...	3.0	2.0	1.7	...	3.7	3.2	...	6.8	6.5	6.9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pt. Pleasant.....	...	9.3	8.0	7.5	6.7	...	5.3	4.7	4.2	3.9	3.8	...	3.8	4.1	4.9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Caletsburg.....	...	12.0	11.7	10.6	9.7	...	7.9	7.0	5.0	5.6	5.2	...	4.4	4.8	5.9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Portsmouth.....	...	14.5	13.3	12.0	11.2	...	9.5	8.8	7.9	7.4	6.9	...	6.3	6.0	6.5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cincinnati.....	16.3	17.0	15.9	14.7	13.4	12.6	11.8	10.9	10.3	9.8	9.4	9.2	8.6	8.4	8.1	8.1	8.4	9.1	10.9	11.7	12.5	13.4	13.3	13.3	13.9	13.5	12.1	10.9	10.6	10.1	...	

DAILY STAGES OF WATER—Continued.

1898	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
JULY.																															
Oil City.....	3.0	...	...	...	1.6	1.5	1.3	1.2	1.1	...	0.10	0.10	0.9	0.8	0.7	0.7	...	0.6	0.6	0.6	0.6	0.6	0.6	...	0.6	0.6	0.8	0.8	1.0	0.11	
Brownsville.....	5.1	...	...	...	5.1	5.4	5.4	5.0	5.11	...	5.5	5.4	5.3	5.2	5.2	5.3	...	5.8	5.7	5.7	5.8	5.8	5.8	...	5.0	5.0	5.11	5.0	6.0	6.2	6.4
Pittsburgh.....	6.0	...	...	...	5.3	5.2	...	5.0	5.7	...	5.6	5.4	...	5.5	5.7	5.5	...	5.8	5.3	6.5	6.5	6.2	5.8	...	5.4	6.1	6.0	6.0	6.2	6.2	...
Wheeling.....	4.4	...	...	...	4.0	2.5	3.0	2.9	2.5	...	2.3	2.2	2.0	1.8	1.7	1.9	...	2.9	1.8	1.7	3.1	4.6	4.2	...	3.1	3.6	3.4	2.9	2.7	2.4	...
Radford.....	0.1	...	...	...	0.1	0.1	...	...	...	...	...	...	...	...	0.1	0.1	...	0.3	0.2	0.2	0.1	0.1	0.8	...	0.8	0.8	0.3	0.4	0.4	0.5	...
Parkersburg.....	5.6	...	...	...	5.8	5.2	4.7	4.2	3.8	...	8.4	3.8	3.3	3.2	3.0	2.8	...	3.6	4.2	4.2	3.8	3.8	5.6	...	5.2	5.0	5.4	5.5	6.0	6.7	...
Hinton.....	1.3	...	...	...	...	1.4	1.3	1.4	1.3	...	1.3	1.2	1.0	1.0	1.0	1.3	...	1.8	1.7	1.8	1.4	1.6	...	2.9	2.4	2.0	2.8	2.1	2.7	...	
Chillicothe.....	6.7	...	...	...	6.5	6.2	6.7	6.7	6.7	...	6.7	6.6	6.4	6.2	6.4	6.2	...	5.5	7.0	6.9	6.9	6.5	...	7.0	7.6	7.2	7.0	7.1	7.6	...	
Pt. Pleasant.....	4.1	...	...	...	4.0	3.8	3.4	3.4	2.9	...	2.3	2.2	2.2	2.2	2.2	2.1	...	2.3	3.9	3.7	3.4	3.3	...	4.2	4.4	4.0	4.7	7.6	7.6	...	
Cattletown.....	7.0	...	...	...	8.0	5.6	5.7	5.4	4.5	...	5.1	5.1	4.5	4.5	4.5	4.8	...	4.7	6.5	6.9	7.0	6.8	...	6.0	6.6	7.2	7.4	7.7	7.7	...	
Portsmouth.....	8.4	...	...	...	...	6.0	7.0	6.9	6.4	...	5.1	5.1	4.5	4.5	4.5	4.8	...	5.8	6.0	7.2	8.0	7.8	...	6.3	7.9	9.6	8.8	8.5	8.5	...	
Cincinnati.....	9.7	9.6	9.5	8.7	8.4	7.8	8.4	8.3	8.7	8.0	7.8	7.4	6.9	6.7	6.5	6.2	6.4	6.7	7.1	8.2	8.4	9.2	9.5	9.3	9.0	9.3	11.0	10.3	10.8	10.4	10.7
AUGUST.																															
Oil City.....	0.9	0.9	0.9	1.0	1.2	3.1	...	1.8	1.6	1.4	1.3	1.3	1.1	...	1.6	1.5	1.4	3.2	5.6	5.7	...	3.7	3.4	2.11	2.5	3.6	3.3	...	2.4	2.2	2.1
Brownsville.....	6.2	6.1	6.0	5.11	5.10	11.8	...	6.11	8.10	15.9	23.0	18.6	16.3	...	9.3	7.1	5.11	5.3	6.6	11.2	...	7.3	5.8	5.3	5.1	3.3	3.3	...	4.2	4.5	4.3
Pittsburgh.....	4.9	6.0	7.9	5.8	5.3	8.0	...	5.3	4.8	9.0	12.4	12.9	9.5	...	6.2	4.8	3.5	2.9	3.3	13.3	...	8.9	6.1	5.0	3.1	2.3	2.3	...	5.8	6.0	6.0
Wheeling.....	5.0	5.2	4.5	4.3	5.4	6.8	...	9.6	8.5	7.8	11.4	15.3	15.3	...	11.3	8.8	7.8	6.5	6.9	11.1	...	14.9	11.2	9.0	7.3	6.3	6.3	...	5.5	6.3	5.5
Radford.....	0.5	0.4	0.3	0.3	0.5	0.5	...	2.0	1.7	1.2	1.0	1.0	1.5	...	1.0	1.0	0.8	0.7	0.7	0.6	...	0.5	0.4	0.4	0.4	0.6	0.6	...	0.5	0.4	0.4
Parkersburg.....	6.2	7.4	7.5	7.7	8.9	8.9	...	10.2	11.7	13.8	12.0	13.6	16.2	...	13.2	11.0	9.2	8.2	8.8	10.7	...	16.9	14.5	11.5	9.8	8.6	7.5	...	6.7	7.0	6.8
Hinton.....	2.1	2.0	2.0	1.8	4.5	5.0	...	3.4	2.9	3.4	9.0	6.3	4.5	...	3.4	...	2.7	2.5	2.2	...	...	2.0	1.9	1.7	1.6	1.7	1.7	...	2.8	2.2	1.9
Charleston.....	6.8	6.9	7.4	8.0	9.0	11.2	...	6.8	6.8	17.9	81.0	25.3	12.5	...	6.8	6.1	5.4	5.0	4.5	6.4	...	6.9	6.9	6.5	6.5	6.8	6.4	...	6.9	6.9	6.9
Pt. Pleasant.....	5.0	4.9	5.8	6.3	8.6	12.7	...	11.8	12.7	18.2	29.5	30.9	27.1	...	19.3	15.1	12.4	9.8	8.3	8.5	...	15.4	16.1	15.0	11.9	9.3	7.5	...	5.6	5.0	5.5
Cattletown.....	8.8	8.9	8.5	9.0	10.2	16.2	...	17.0	16.5	23.9	37.0	40.5	36.5	...	26.5	21.5	17.0	14.7	12.5	11.8	...	16.4	21.0	19.5	16.8	13.9	11.8	...	8.4	7.4	7.2
Portsmouth.....	10.2	10.3	10.0	10.3	11.0	14.2	...	17.8	17.2	23.0	33.8	38.6	38.4	...	29.6	24.4	19.3	16.5	14.0	13.0	...	14.7	19.0	20.0	18.1	15.4	12.9	...	9.7	8.8	8.2
Cincinnati.....	11.2	12.0	12.1	12.3	12.2	12.6	14.7	17.6	21.0	21.8	25.0	34.2	39.2	37.7	36.7	32.6	28.2	23.8	20.7	18.2	16.7	14.8	15.5	19.1	21.8	21.0	19.2	16.5	14.0	11.7	11.5
SEPTEMBER.																															
Oil City.....	2.0	1.9	1.6	...	...	1.0	1.0	1.6	1.3	1.1	...	1.0	0.11	0.10	0.10	0.9	0.8	...	0.8	0.7	0.7	0.6	0.6	0.6	...	0.9	0.8	0.8	0.7	0.7	...
Brownsville.....	4.8	5.0	5.2	...	...	5.5	5.8	6.3	7.3	6.11	...	6.2	5.11	5.7	5.7	5.5	5.4	...	5.2	5.2	5.0	5.1	5.2	5.4	...	5.4	5.7	5.8	5.8	5.7	...
Pittsburgh.....	6.0	6.0	5.8	...	...	5.6	5.7	6.0	6.3	6.5	...	6.0	3.0	5.5	5.8	5.8	...	5.7	5.8	5.4	5.8	5.8	5.8	...	5.0	5.4	5.7	5.8	5.8	5.7	...
Wheeling.....	5.0	4.4	3.9	...	...	3.3	3.8	3.0	3.0	3.8	...	4.1	3.9	3.0	2.9	2.1	1.9	...	1.8	1.8	1.7	1.7	1.6	1.6	...	2.6	1.6	1.5	1.5	2.3	...
Radford.....	0.3	0.3	0.3	...	...	...	2.6	2.0	1.5	0.8	...	0.5	0.4	0.3	0.3	0.2	0.3	...	0.2	0.2	0.2	0.2	0.2	...	2.6	2.7	2.6	2.5	2.5	...	
Parkersburg.....	6.5	6.3	5.9	...	...	5.3	5.7	5.9	5.4	5.0	...	4.5	5.9	4.9	4.5	4.0	3.5	...	3.0	2.8	2.6	2.6	2.6	...	2.9	2.4	2.1	1.9	1.7	...	
Hinton.....	1.9	1.6	...	...	...	...	3.9	3.9	...	2.1	1.9	...	1.6	1.5	1.4	1.3	1.2	...	1.5	1.4	1.3	1.2	1.2	...	2.9	2.4	2.1	1.9	1.7	...	
Charleston.....	6.8	6.8	6.6	...	...	...	6.6	7.9	7.2	7.0	6.4	...	6.8	6.4	6.3	6.4	6.4	...	6.5	6.4	6.5	6.5	6.5	6.7	...	6.0	4.8	4.2	3.8	5.3	...
Pt. Pleasant.....	5.7	5.2	4.6	...	...	...	4.0	4.8	5.5	5.0	4.7	...	3.4	3.0	3.3	3.4	2.9	2.6	...	2.8	2.0	1.9	1.7	...	...	7.0	6.8	5.0	3.0	2.4	...
Cattletown.....	7.5	7.6	6.8	...	...	...	4.9	5.4	7.3	7.5	7.0	...	5.1	4.5	4.1	4.4	4.2	3.5	...	3.0	2.9	2.5	2.0	...	...	5.8	8.1	7.2	6.8	4.5	...
Portsmouth.....	8.4	8.5	8.2	...	...	...	6.5	6.3	7.2	8.2	8.2	...	6.9	6.1	5.5	5.4	5.5	5.2	...	4.5	4.2	3.9	3.5	...	...	5.8	8.1	7.2	6.8	4.5	...
Cincinnati.....	10.1	10.8	9.7	...	9.3	9.1	8.5	8.1	8.0	8.7	8.9	9.0	9.0	8.3	7.7	7.3	7.0	6.8	...	6.7	6.3	6.0	5.8	5.3	...	5.1	5.0	4.8	4.5	8.6	...

DAILY STAGES OF WATER—Continued.

1898	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
OCTOBER.																																	
Oil City.....	0.6	...	0.6	0.5	0.5	0.5	1.6	1.6	...	0.11	0.10	0.10	0.10	0.9	0.10	...	2.2	1.9	1.4	1.4	1.6	2.2	...	...	5.6	5.0	4.7	2.6	3.0	3.6	...	2.10
Brownsville.....	5.7	...	5.6	5.4	5.6	5.4	5.6	5.11	...	6.5	6.1	6.0	6.0	6.0	6.0	...	6.2	6.2	6.9	10.5	6.9	14.8	...	...	13.6	9.10	9.6	6.9	6.5	6.2	...	5.6
Pittsburgh.....	5.7	...	5.8	5.8	5.8	5.6	5.5	6.0	...	6.2	6.0	5.9	6.0	5.7	6.4	...	6.0	6.4	6.0	6.2	7.0	5.7	...	...	12.2	10.6	8.7	7.1	6.3	5.9	...	4.5
Wheeling.....	2.2	...	1.7	1.7	1.6	1.6	1.7	...	...	2.0	3.9	4.1	3.7	...	2.8	...	2.9	2.9	3.4	4.6	5.6	7.9	...	...	18.7	16.0	14.0	11.6	9.9	8.6	...	7.9
Radford.....	0.5	...	0.3	0.3	0.8	2.0	2.3	2.0	...	1.0	0.8	0.7	0.5	0.4	...	...	0.3	0.6	0.5	0.7	3.2	7.7	...	...	3.0	2.0	1.7	1.0	0.8	10.0	...	0.5
Parkersburg.....	2.7	...	2.8	2.7	2.5	2.4	2.3	2.4	...	3.2	3.8	4.0	4.5	4.4	...	...	3.5	3.6	5.5	6.7	6.8	7.8	...	...	14.7	17.5	15.3	13.2	...	...	...	8.9
Hinton.....	1.6	...	1.6	1.6	1.7	1.7	4.5	3.9	...	2.4	2.3	2.1	1.9	1.9	...	...	1.7	1.8	2.5	3.3	3.2	7.9	...	...	13.8	8.6	4.2	3.7	3.3	...	...	2.6
Charleston.....	6.4	...	6.3	6.5	6.5	6.5	8.2	7.4	...	6.3	6.5	6.5	6.7	6.8	6.6	...	6.6	6.6	6.8	8.4	7.2	7.9	...	...	20.0	21.2	20.3	17.9	18.0	19.6	...	4.9
Pt. Pleasant.....	2.0	...	1.8	2.4	2.3	2.3	3.8	4.1	...	2.7	2.6	2.5	2.4	2.8	3.1	...	2.7	2.6	3.0	3.2	7.9	...	...	...	21.5	23.7	24.3	22.3	21.0	17.0	...	13.0
Cattletown.....	...	...	2.0	2.5	3.0	3.1	2.7	3.0	...	4.6	3.8	3.6	4.0	3.0	3.5	...	3.7	3.0	4.0	4.4	7.3	10.9	...	...	18.6	22.7	24.4	22.3	21.0	18.2	...	13.0
Portsmouth.....	...	...	2.9	3.2	3.6	3.5	3.0	...	...	5.1	4.7	4.5	...	...	...	...	5.1	4.9	4.8	5.3	7.4	10.7	...	...	18.6	22.7	24.4	22.3	21.0	18.2	...	13.0
Cincinnati.....	7.4	6.9	5.5	4.9	4.7	4.5	4.7	3.1	5.4	3.6	8.0	7.0	7.2	6.8	6.5	6.4	6.3	6.9	7.1	6.9	6.9	7.8	...	...	12.4	16.1	13.1	24.3	24.3	23.2	20.4	18.0
NOVEMBER.																																	
Oil City.....	2.8	2.6	2.6	2.4	2.4	...	5.6	...	4.4	4.0	8.1	8.6	...	5.10	4.9	4.0	3.8	3.7	3.4	...	2.11	2.10	...	...	...	2.6	...	...	2.4	2.3	2.0	...
Brownsville.....	5.4	5.4	5.4	5.2	5.1	...	5.7	...	5.8	5.4	11.1	13.1	...	8.3	7.5	7.4	7.0	6.5	6.2	...	12.0	10.6	8.4	...	...	6.11	6.2	...	5.6	5.3	5.2	...
Pittsburgh.....	4.2	3.8	3.5	5.6	5.1	...	6.6	...	6.9	5.9	9.5	15.9	...	10.8	8.0	7.2	6.5	6.3	...	...	6.5	9.3	...	...	...	5.0	4.3	...	8.7	6.5	6.0	...
Wheeling.....	7.5	6.9	6.6	6.1	5.7	...	6.8	...	10.3	10.4	11.0	17.6	...	18.0	14.5	12.5	11.0	8.5	8.7	...	8.8	9.2	9.8	...	...	8.2	7.8	...	8.7	6.5	6.0	...
Radford.....	0.5	0.5	0.4	0.4	0.4	...	0.3	...	0.2	0.2	0.2	0.3	...	0.3	0.3	0.3	0.5	0.9	1.3	...	1.0	1.0	...	...	...	0.8	0.8	...	0.7	0.9	0.8	...
Parkersburg.....	8.6	8.2	7.8	7.5	7.2	...	7.5	...	9.8	10.9	16.0	15.7	...	20.8	18.2	15.0	12.7	11.3	10.3	...	4.6	9.8	...	...	...	9.5	8.9	...	8.1	7.7	7.5	...
Hinton.....	2.7	2.6	2.4	2.4	2.3	...	2.2	...	2.2	2.2	2.2	2.1	...	2.5	2.2	2.3	2.3	2.0	...	...	4.6	8.8	...	...	...	6.4	6.2	...	5.3	4.8	4.8	...
Charleston.....	4.8	4.9	4.8	4.8	4.8	...	7.0	...	7.1	7.0	7.0	8.1	...	7.5	7.3	7.3	7.0	7.0	7.7	...	11.8	8.7	7.8	...	...	11.9	10.8	...	8.7	7.9	7.2	...
Pt. Pleasant.....	8.5	8.0	7.4	6.6	6.0	...	5.7	...	7.9	9.7	14.5	17.8	...	22.0	21.9	19.5	16.5	13.9	12.3	...	14.5	14.1	12.8	...	...	...	...	...	12.1	11.2	10.0	...
Cattletown.....	11.8	10.8	10.0	9.8	8.5	...	7.8	...	9.0	...	16.0	20.5	...	24.3	25.7	24.2	21.5	18.5	16.3	...	17.4	18.0	17.0	...	...	15.4	14.7	...	18.1	12.0	11.1	...
Portsmouth.....	12.5	11.5	10.9	10.3	9.7	...	8.5	...	9.8	11.2	15.3	20.7	...	24.8	25.8	23.8	23.0	20.3	17.6	...	16.4	18.4	17.9	...	...	15.4	15.0	...	18.1	12.0	11.1	...
Cincinnati.....	16.5	15.2	13.6	12.7	12.7	12.5	11.6	11.4	10.3	13.9	16.8	16.8	19.7	24.3	25.5	26.1	25.8	25.0	22.9	20.4	19.2	17.0	19.4	...	18.7	18.3	17.4	16.9	16.3	15.4	14.4	...	
DECEMBER.																																	
Oil City.....	2.3	1.10	1.10	...	1.9	1.9	1.7	1.7	1.7	1.6	...	...	...	2.6	2.8	2.6	2.5	...	...	3.1	3.2	5.9	7.0	...	...	...	...	4.1	3.9	3.5	2.11	2.7
Brownsville.....	5.3	6.5	5.6	...	6.10	9.5	8.10	...	7.9	6.6	5.9	5.6	5.6	...	4.11	3.2	5.9	12.9	7.3	6.3	5.10	5.5	5.4
Pittsburgh.....	3.2	3.2	3.0	...	3.8	5.8	6.1	5.3	4.4	3.0	2.8	2.8	...	2.2	2.2	2.9	5.5	15.2	14.8	8.9	7.7	5.9	5.0	5.1
Wheeling.....	5.9	6.1	5.9	...	5.8	7.3	8.9	8.9	8.4	7.3	...	...	...	4.9	6.6	8.8	...	5.2	6.8	11.2	20.2	22.8	...	...	...	...	...	14.8	11.8	10.2	9.5	8.4
Radford.....	0.8	0.8	0.8	...	1.0	2.0	1.9	1.8	1.4	0.8	0.7	1.0	1.0	1.0	0.8	0.8	0.7	0.6	1.5
Parkersburg.....	7.1	7.1	7.8	...	7.6	10.0	9.5	10.3	9.7	9.0	12.5	16.4	21.9	18.2	15.0	12.2	10.9	9.8
Hinton.....	2.6	2.4	2.3	...	2.3	4.6	3.8	3.6	2.9	2.6	2.8	2.9	3.5	3.2	2.9	2.7	2.5	2.4
Charleston.....	4.7	5.0	4.9	...	5.0	6.8	8.0	6.9	6.1	5.6	4.4	4.3	3.9	3.8	3.7	6.8	7.8	7.5	6.6	6.0	5.5	5.2	5.0
Pt. Pleasant.....	6.6	6.4	6.4	...	10.3	11.9	12.8	12.2	12.0	10.5	6.4	6.0	5.4	4.4	3.9	10.3	15.6	17.0	21.2	24.4	20.8	17.0	18.8	11.7
Cattletown.....	9.0	8.7	8.5	...	10.3	11.9	15.6	16.3	15.9	14.7	11.3	10.0	8.5	7.8	7.0	5.8	...	6.5	9.5	15.6	20.9	23.4	23.3	26.5	23.5	21.8	15.9
Portsmouth.....	10.3	9.8	9.4	...	11.3	12.5	15.3	16.5	16.2	15.5	12.5	11.3	10.4	9.4	8.5	7.5	...	7.3	10.8	16.9	21.4	23.9	30.5	28.1	25.0	21.0	17.8
Cincinnati.....	13.5	11.8	11.8	13.8	14.2	15.7	15.9	16.8	17.8	18.3	17.7	16.5	15.0	14.0	12.7	11.5	10.9	10.6	10.4	...	10.4	15.0	19.0	22.8	...	23.9	24.5	27.6	31.9	31.7	29.7	27.7	26.6

THE AVERAGE RELATIVE HUMIDITY AT CINCINNATI,

With the monthly and yearly means, and the amount of rainfall and melted snow, together with the number of clear, fair, cloudy and rainy days, and mean of warmest and coldest days, for the calendar year ending December 31, 1898, with totals and averages, and the average temperature and precipitation for the same:

MONTHS.	RELATIVE HUMIDITY.					WEATHER.										DEW POINT.					
	Monthly Mean.	Highest during Month.	Lowest during Month.	Monthly Range.	Rainfall and melted snow (inches).	Number of clear days.	Number of fair days.	Number of cloudy days.	No. of days on which rain or snow fell.	Mean of warmest days.	Dates.	Mean of coldest days.	Dates.	Greatest daily range of temperature.	Least daily range of temperature.	Mean temperature 1898, excess (+) or deficiency (-).	Average precipitation for twenty-five years.	Precipitation 1898, excess (+) or deficiency (-).	7 A. M.	7 P. M.	Mean.
January.....	81	97	50	47	7.76	8	7	16	13	60	12, 11	18	2	29	4	+4.8	3.46	+4.30	31	32	31
February.....	72	94	38	56	2.21	7	8	13	11	55	10, 11	12	3	32	3	-1.45	3.69	-1.48	26	26	26
March.....	75	97	40	57	6.70	9	7	15	19	66	17	31	2	29	6	+7.1	3.30	+3.40	38	42	40
April.....	66	93	32	61	1.15	13	10	10	9	65	19	28	5	27	6	-2.06	3.20	-2.05	37	39	38
May.....	64	100	34	66	3.03	12	16	8	12	78	30	66	6	31	6	+0.4	3.41	-0.38	50	51	50
June.....	60	91	32	59	1.38	12	12	2	11	81	3	21	11	27	9	+1.7	4.40	-2.82	60	59	59
July.....	65	91	24	67	3.25	14	10	5	7	86	5, 9, 13, 27	72	8	27	8	-1.11	3.38	-0.12	64	63	64
August.....	72	96	36	60	2.61	18	10	3	9	85	23	72	11	24	9	+1.8	3.72	-1.11	66	66	65
September.....	70	96	41	55	2.62	21	6	3	9	84	2, 3	26	9	26	9	+4.2	2.42	+0.20	58	60	59
October.....	76	97	49	48	2.40	11	8	12	12	77	27, 26	38	27	29	4	+0.1	2.44	+0.46	49	47	47
November.....	73	97	25	71	2.09	12	6	10	9	58	21	33	26	41	4	-0.61	3.30	-0.61	32	34	33
December.....	78	96	33	42	2.46	13	6	12	12	50	20	12	14	29	6	-4.5	3.15	-0.69	24	27	26
Totals.....	852	....	....	....	38.97	154	107	104	133	....	....	....	....	....	....	....	....	....	530	543	538
Averages, etc.....	71	....	....	....	3.26	13	9	9	11	....	....	....	....	41	3	....	....	....	44	46	45

NOTE.—Highest humidity during the year was 100°; lowest, 24°; annual range, 76°. Mean of coldest day, 12°, on Feb. 3d and Dec. 14th; warmest, 86°, July 3d.

BAROMETRICAL AND THERMOMETRICAL CONDITIONS AT CINCINNATI,

For the calendar year ending December 31, 1898, with averages:

MONTHS.	* BAROMETER (INCHES).						THERMOMETER (DEGREES).											
	Monthly Mean.	Mean at 7 A. M.	Mean at 7 P. M.	Highest Observed.	Dates.	Lowest Observed.	Dates.	Monthly Range.	Monthly Mean.	Mean at 7 A. M.	Mean at 7 P. M.	† Maximum.	Dates.	† Minimum.	Dates.	Monthly Range.	Mean of Maximum.	Mean of Minimum.
January.....	30.078	30.090	30.067	30.450	1	29.367	22	1.083	37.2	35.0	37.8	68	12	11	2	57	43.3	31.2
February.....	30.164	30.160	30.167	30.560	3	29.563	15	0.997	34.9	30.7	36.8	67	10	11	3	66	42.2	27.6
March.....	30.156	30.172	30.139	30.462	29	29.725	22	0.737	49.2	43.4	51.5	74	19	27	1	47	57.3	41.6
April.....	30.063	30.091	30.035	30.461	7	29.572	14	0.889	50.5	45.4	55.3	86	17	22	5	55	59.4	41.6
May.....	29.960	30.081	29.938	30.153	17	29.734	28	0.419	65.1	60.0	68.2	92	19	24	6	52	74.2	56.0
June.....	30.018	30.050	29.985	30.225	22	29.689	25	0.536	75.5	70.4	80.3	98	24	26	2	36	85.2	65.8
July.....	30.043	30.076	30.010	30.269	12	29.824	27	0.445	78.6	73.1	81.8	94	3	31	11	40	87.7	69.4
August.....	30.013	30.038	29.968	30.201	14	29.853	22	0.348	76.8	71.2	79.5	94	23	31	28	33	85.3	68.3
September.....	30.070	30.092	30.047	30.431	11	29.746	22	0.685	72.3	66.3	75.0	94	3	49	11	45	81.7	62.9
October.....	30.069	30.102	30.076	30.336	27	29.695	17	0.641	56.5	51.3	58.1	87	2	31	27	56	64.2	48.8
November.....	30.153	30.158	30.148	30.516	25	29.682	29	0.834	42.3	38.4	43.8	70	4	11	26	59	50.0	34.6
December.....	30.169	30.158	30.160	30.831	9	29.408	4	1.423	32.2	29.1	33.6	60	22, 29	1	14	59	39.6	24.7
Yearly Means.....	30.080	30.097	30.063	.....	....	.....	....	0.753	55.9	51.1	58.5	....	....	....	....	50	64.2	47.7

* Barometer reduced to sea-level. Elevation of Barometer above sea-level, 628 feet. Highest observed by Barometer, 30.831 inches, December 9th.

Lowest observed by Barometer, 29.367 inches, January 22d. Range of Barometer, 1.464 inches.

† Self-registering instruments. Range of Thermometer, 97°. Maximum of Thermometer, 98°, July 3d. Minimum of Thermometer, 1°, February 3d.

WEATHER SUMMARY.

A very full history of the weather conditions, at Cincinnati, is shown in the accompanying exhibits, covering a wide range of observations, (thermometrical, barometrical, etc.,) prepared especially for the Chamber of Commerce, by Mr. M. E. BLYSTONE, Observer U. S. Weather Bureau, from data collected by the Government at this station, and furnished by Mr. S. S. BASSLER, Local Forecast Official:

METEOROLOGICAL DATA FOR THE YEAR ENDING DECEMBER 31, 1898.

TEMPERATURE.

Mean temperature of the year, 55.9 degrees.
Maximum temperature of the year, July 3d, 98 degrees.
Minimum temperature of the year, February 3d, 1 degree.
Range of temperature, 97 degrees.
Mean of the coldest month, December, 32.2 degrees.
Mean of the coldest days, February 3d and December 14th, 12 degrees.
Mean of the warmest month, July, 78.6 degrees.
Mean of the warmest days, July 3d, 86 degrees.
Greatest monthly range, February, 66 degrees.
Least monthly range, August, 33 degrees.
Greatest daily range, November 22d, 41 degrees.
Least daily range, February 28th, 3 degrees.
Mean temperature of autumn, 57.1 degrees.
Mean temperature of winter, 38.1 degrees.
Mean temperature of spring, 54.9 degrees.
Mean temperature of summer, 75.5 degrees.

BAROMETRIC OBSERVATIONS.

Mean barometer for the year, 30.080 inches.
Highest barometer for the year, December 9th, 30.831 inches.
Lowest barometer for the year, January 22d, 29.367 inches.
Annual range of the barometer for the year, 1.464 inches.
Highest monthly mean barometer, February, 30.164 inches.
Lowest monthly mean barometer, May, 29.960 inches.
Greatest monthly range of barometer, December, 1.423 inches.
Least monthly range of barometer, August, 0.348 inch.

WINDS.

Prevailing direction of wind, southeast.
Total movement of wind, 68,602 miles.
Greatest monthly movement of wind, January, 7,761 miles.
Least monthly movement of wind, August, 4,052 miles.

Greatest daily velocity of wind, January 23d, 547 miles.

Least daily velocity of wind, April 12th, 58 miles.

Mean hourly velocity of wind, 7.8 miles.

RAIN.

Total rainfall for year, 38.97 inches.

Total rainfall for autumn, 8.21 inches.

Total rainfall for winter, 5.66 inches.

Total rainfall for spring, 10.88 inches.

Total rainfall for summer, 7.45 inches.

HUMIDITY.

Mean relative humidity for the year, 71 per cent.

Driest month, June, 60 per cent.

Dampest month, January, 81 per cent.

GENERAL OBSERVATIONS.

First light frost, of autumn, October 16th.

First killing frost, of autumn, October 27th.

First snow, of autumn, October 22d.

First thunderstorm of calendar year, January 25th. Last, November 5th.

Last snow, of spring, May 26th.

Last frost, of spring, April 21st.

Total snowfall for the year, 18.2 inches.

MONTHLY CHARACTERISTICS.

January, 1898.—A rather warm month. Mean temperature, 4.8 degrees above the normal. Greatest daily range of temperature, 29 degrees; least, 4 degrees. A wet month. Total precipitation, 7.76 inches, which was 4.30 inches above the normal. Prevailing direction of wind, west. A month of frequent high winds. Average hourly velocity during month, 10.4 miles. Total snowfall during month, 0.4 inch. Sunshine, 42 per cent of possible. Foggy on the 11th. Thunderstorm on the 25th. Hail on the 25th. Lunar halo on the 4th. Solar on the 28th.

February, 1898.—Mean temperature for the month slightly below the normal. The first and last parts of the month were cold and the rest of the month warm. Greatest daily range of temperature, 32 degrees; least, 8 degrees, which was the least during the year. Total rainfall for the month, 2.21 inches, which was 1.48 inch below normal. Prevailing direction of wind, southeast. Average hourly velocity during month, 9.1 miles. Snowfall during month, 2.8 inches. Sunshine, 45 per cent of possible. Hail on the 15th. Thunderstorm on the 19th. Lunar halo on the 4th.

March, 1898.—Temperature for the month very warm, except for a few days at the beginning and at the end of the month. Mean temperature, 7.1 degrees above the normal. Greatest daily range, 29 degrees; least, 6 degrees. A wet month. Total precipitation, 6.70 inches, which was 3.40 inches above the normal. Prevailing direction of wind, south. Average hourly velocity during month, 7.7 miles. Snowfall during month, 5.4 inches, of which 3.7 inches fell on the 1st. Sunshine, 41 per cent of possible. Thunderstorms on the 16th and 22d. Hail on the 16th. Lunar halo on the 5th. Aurora on the 16th.

April, 1898.—A rather cold month, the temperature averaging 4 degrees below the normal. Greatest daily range, 27 degrees; least, 6 degrees. Light frost on the 21st, which was the last frost of spring. A dry month. Precipitation 2.05 inches less than the normal. Prevailing direction of wind, northwest. Average hourly velocity during month, 8.3 miles. High winds of frequent occurrence. Sunshine, 59 per cent of possible. Snowfall during month, 1.0 inch.

May, 1898.—Mean temperature of the month nearly normal. A few days of warm weather at first of month, followed by a period of cold weather, which was followed by a second period of warm weather. Greatest daily range of temperature, 31 degrees; least, 6 degrees. Total precipitation, 3.08 inches, which is nearly normal. Most of this precipitation fell during the first half of the month. Prevailing direction of wind, north. Average hourly velocity during month, 8.1 miles. High winds of frequent occurrence. Sunshine, 69 per cent of possible. Snowfall, 0.1 inch. Thunderstorms on the 5th, 6th, 11th, 16th, 19th and 28th. Lunar halo on the 27th.

June, 1898.—Mean temperature for the month, 1.7 degrees above the normal. The month was generally warm, except for a few days following the middle of the month. A dry month, the total precipitation being 2.82 inches below the normal. Prevailing direction of wind, southwest. Winds generally light. Average hourly velocity during month, 6.3 miles. Very high wind on the 25th. Sunshine, 82 per cent of possible. Thunderstorms on the 8th, 9th, 10th, 13th, 19th, 25th and 26th. Solar halo on the 22d.

July, 1898.—Mean temperature for the month slightly above the normal. Greatest daily range of temperature, 27 degrees; least, 8 degrees. The highest temperature of the year, 98 degrees, occurred on the 3d. Precipitation during the month nearly normal. The first half of the month was dry and the last half wet. Prevailing direction of wind, southwest. Average hourly velocity during month, 6.2 miles. Thunderstorms on the 3d, 15th, 17th, 24th, 25th, 28th and 30th.

August, 1898.—Mean temperature for the month, 1.8 degrees above the normal. The temperature of the first half of the month was about normal, while the last half was very warm. Greatest daily range of temperature 24 degrees; least, 9 degrees. Precipitation, 1.11 inch below the normal. Though the total rainfall was not great, it was well distributed through the month. Prevailing direction of wind, southwest. Winds generally light. Average hourly velocity during month, 5.4 miles. Sunshine, 78 per cent of possible. Thunderstorms on the 2d, 3d, 8th, 18th, 24th and 26th.

September, 1898.—A warm month. Mean temperature for the month, 4.2 degrees above the normal. A few days of very warm weather were followed by a few days of cool weather, which were followed in turn by a longer period of warm weather. Greatest daily range of temperature, 26 degrees; least, 9 degrees. Total precipitation during the month, 2.62 inches, which was slightly above the normal. Prevailing direction of wind during the month, southeast. Average hourly velocity during month, 6.6 miles. Sunshine, 77 per cent of possible. Thunderstorms on the 4th, 5th, 15th and 24th. Fog on the 16th.

October, 1898.—Mean temperature during the month almost normal. The first third of the month was very warm however, while the rest of the month was cool. Greatest daily range of temperature, 29 degrees; least, 4 degrees. Total precipitation, 0.46 inch above the normal. Prevailing direction of wind, southeast. Average hourly velocity during the month, 8.1 miles. Sunshine, 51 per cent of possible. First light frost of the season on the 16th, and the first killing frost of the season on the 27th. Fog on the 8th and 29th. Solar halo on the 20th. Lunar halo on the 27th.

November, 1898.—Mean temperature for the month, 1.6 degrees below the normal. The first two-thirds of the month averaged above the normal, while the last third was very cold. Greatest daily range of temperature, 41 degrees, which was the greatest of the year; least, 4 degrees. Total precipitation, 0.61 inch below the normal. Most of the rain fell on the 9th and 10th. Prevailing direction of wind, southeast. Average hourly velocity during month, 8.3 miles. Sunshine, 51 per cent of possible. Total snowfall, 1.4 inch. Fog on the 29th. Thunderstorm on the 5th. Lunar halos on the 1st and 20th.

December, 1898.—A cold month. Mean temperature for the month was 4.5 degrees below the normal. A portion of the month was warm. Greatest daily range of temperature, 29 degrees; least, 6 degrees. Total precipitation during the month, 2.46 inches, which was 0.69 inch below the normal. Trace or more of rain or snow fell on eighteen days. Prevailing direction of wind, southwest. The wind blew from the southwest 41 per cent of the entire month. A windy month. Average hourly velocity during month, 9.4 miles. Total snowfall during the month was quite heavy, amounting to 7.1 inches. Trace or more snow fell on eleven days. Sunshine, 58 per cent of possible.

POPULATION OF THE UNITED STATES.

Population of the United States by States and Divisions, and Total and Urban Population, in 1890, and the Increase in each, compared with 1880:

STATES AND TERRITORIES.	TOTAL POPULATION.		URBAN POPULATION.		NUMBER OF CITIES AND PERCENTAGE OF URBAN OF TOTAL POPULATION.			
	1890	1880	1890	1880	1890		1880	
Total Population of United States...	62,622,250	50,155,783	18,235,670	11,318,547	443	29.12	286	22.57
North Atlantic Division.....	17,401,545	14,507,407	8,976,426	6,254,096	195	51.58	137	43.11
Maine.....	661,086	648,936	130,346	87,100	8	19.72	5	13.42
New Hampshire.....	376,530	346,991	103,058	76,200	5	27.37	5	21.96
Vermont.....	332,422	332,286	26,350	21,500	2	7.93	2	6.47
Massachusetts.....	2,238,943	1,783,085	1,564,981	1,042,089	47	69.90	33	58.44
Rhode Island.....	345,506	276,581	272,571	175,500	10	78.89	6	63.46
Connecticut.....	746,258	622,700	377,433	266,100	16	50.58	13	42.73
New York.....	5,997,853	5,082,871	3,568,708	2,591,267	43	59.50	33	50.98
New Jersey.....	1,444,933	1,131,116	780,978	495,650	20	54.05	12	43.82
Pennsylvania.....	5,258,014	4,282,891	2,152,051	1,498,740	44	40.93	28	34.99
South Atlantic Division.....	8,857,920	7,597,197	1,420,455	942,387	36	16.04	23	12.40
Delaware.....	168,493	146,608	61,431	42,478	1	36.46	1	28.97
Maryland.....	1,042,390	934,943	465,479	351,665	4	44.65	3	37.61
District of Columbia.....	230,392	177,624	230,392	159,871	1	100.00	2	90.01
Virginia.....	1,655,980	1,512,565	221,965	148,230	9	13.40	6	9.80
West Virginia.....	762,794	618,457	53,529	30,737	3	7.02	1	4.97
North Carolina.....	1,617,947	1,399,750	62,544	26,615	5	3.87	2	1.90
South Carolina.....	1,151,149	995,577	78,915	60,020	3	6.86	2	6.03
Georgia.....	1,837,353	1,542,180	199,169	112,881	7	10.84	5	7.32
Florida.....	391,422	269,493	47,081	9,890	3	12.02	1	3.67
North Central Division.....	22,362,279	17,364,111	5,791,272	3,024,679	152	25.90	95	17.42
Ohio.....	3,672,316	3,198,062	1,159,848	745,894	29	31.57	20	23.32
Indiana.....	2,192,404	1,978,301	400,567	244,063	18	18.27	11	12.34
Illinois.....	3,826,351	3,077,871	1,488,324	732,021	24	38.77	18	23.78
Michigan.....	2,093,889	1,686,987	546,095	271,566	20	26.08	12	16.59
Wisconsin.....	1,686,880	1,315,497	424,546	212,431	17	25.17	9	16.15
Minnesota.....	1,301,826	780,773	369,315	107,623	6	28.37	4	13.78
Iowa.....	1,911,896	1,624,615	269,230	152,578	12	14.08	10	9.39
Missouri.....	2,679,184	2,168,380	703,743	459,369	8	26.27	5	21.18
North Dakota.....	182,719	86,909	.....	.....	..	.....	..	.....
South Dakota.....	328,808	98,268	10,177	.....	1	3.10	..	.....
Nebraska.....	1,058,910	452,402	259,048	43,521	8	24.46	2	9.62
Kansas.....	1,427,096	996,096	165,879	55,613	9	11.62	4	5.58
South Central Division.....	10,972,893	8,919,371	1,147,147	673,708	37	10.45	20	7.55
Kentucky.....	1,858,635	1,648,690	276,733	198,608	7	14.89	5	12.05
Tennessee.....	1,767,518	1,542,359	202,337	99,527	5	11.45	4	6.45
Alabama.....	1,513,017	1,262,505	89,013	45,845	4	5.88	2	3.63
Mississippi.....	1,289,600	1,181,597	34,098	11,814	3	2.64	1	1.04
Louisiana.....	1,118,587	939,946	264,496	224,099	3	23.65	2	23.84
Texas.....	2,235,523	1,591,749	225,247	80,682	11	10.08	5	5.07
Indian Territory.....	.....	.....	.....	.....	..	.....	..	.....
Oklahoma.....	61,884	.....	.....	.....	..	.....	..	.....
Arkansas.....	1,128,179	802,525	55,223	13,138	4	4.89	1	1.64
Western Division.....	3,027,613	1,767,697	900,370	423,677	23	29.74	11	23.97
Montana.....	132,159	39,159	24,557	.....	2	18.58	..	.....
Wyoming.....	60,705	20,780	11,690	.....	1	19.26	..	.....
Colorado.....	412,198	194,327	153,623	50,449	4	37.27	2	25.96
New Mexico.....	153,593	119,565	.....	.....	..	.....	..	.....
Arizona.....	59,620	40,440	.....	.....	..	.....	..	.....
Utah.....	207,905	143,963	59,732	20,768	2	28.73	1	14.43
Nevada.....	45,761	82,266	.....	10,917	..	.....	1	17.53
Idaho.....	84,385	32,610	.....	.....	..	.....	..	.....
Alaska.....	.....	.....	.....	.....	..	.....	..	.....
Washington.....	349,390	75,116	98,765	.....	3	28.27	..	.....
Oregon.....	313,767	174,768	56,917	17,577	2	18.14	1	10.06
California.....	1,208,130	864,694	495,086	323,966	9	40.98	6	37.47

* RULES
FOR THE
REGULATION OF THE DAILY SESSIONS
OF THE
CINCINNATI CHAMBER OF COMMERCE.

IN FORCE JUNE 1, 1899.

RULE 1. The doors of the Exchange Hall shall be opened at 10 o'clock A. M. and closed at 2:30 P. M., city time, except on Sundays, legal holidays, and days on which an adjournment may have been effected, when the Hall will be closed.

†**RULE 2.** The daily sessions of the Association shall be held between 11:30 A. M. and 1 o'clock, P. M., city time, except on Saturdays, when the session shall be held between 10 o'clock, A. M., and 12 o'clock, noon.

‡**RULE 3.** Visitors who are non-residents of Cincinnati and the adjacent cities, may be admitted to the Exchange Hall after 10 o'clock A. M. when introduced by a member of the Association; but no person shall be admitted more than seven times, within three months, except upon the approval of a member of the Board of Directors for each admission. All persons, so introduced, must consider themselves amenable to the Rules of the Chamber of Commerce, and will not be permitted to transact any business. Any violation of this rule will make the member introducing such party liable to the payment of the sum of twenty-five dollars for each offense. A book shall be kept, in which the names of all visitors, with their places of residence, and the names of the persons introducing them, shall be daily registered, the same to be open to the inspection of members. No person shall be introduced as a visitor who, being in arrears to a member upon any business transaction, refuses to arbitrate and adjust the same before the proper Committees of the Chamber of Commerce.

RULE 4. Pastors of Churches in Cincinnati and adjacent cities, on application of members of their respective congregations who are members of this Association, the Judges of the Courts, the Mayor, the heads of Charitable Institutions, not engaged in business of any kind, and Officers of the U. S. Army and Navy, stationed here, in the discretion of the President, and such other distinguished citizens as may be authorized by the Board of Directors, may have issued to them complimentary tickets of admission to the Exchange Hall, good until the close of the calendar year for which they are issued. A complete record of all such tickets shall be kept; but in no case shall persons so admitted be allowed to transact any business, and any violation of this regulation shall be good cause for the withdrawal of such tickets.

§**RULE 5.** The Hall may be used by auctioneers, who are members of the Chamber of Commerce, for the sale of stocks, bonds, and other property coming under the rules of the Chamber of Commerce, at 1:30 P. M., but, in every case, the consent of five members of the Board of Directors must be secured for such sale, and notice must be placed on the bulletin-board before 1 o'clock of the

* Adopted February 5, 1889, save as to Rule 16, which had been adopted January 23 preceding; and as to the rental of sample desks (Rule 10), the rates of which were changed from \$10.00 to \$5.00, April 23, 1889.

† As amended May 5, 1896.

‡ As amended February 5, 1895, and February 1, 1898.

§ As amended December 5, 1893.

day preceding. In the case of stocks, bonds, etc., notice must state specifically the number and character of such securities. In the case of whisky, no lot shall be offered of less than twenty-five barrels of one age and brand. The sale must begin within five minutes of the time published, except when more than one sale has been announced, when the sales shall immediately follow in the order of application. No modification of the terms of sale or character of the stocks, etc., as advertised, shall be allowed, nor shall a larger quantity of stocks, etc., be sold than advertised; but nothing shall be construed herein to prevent such securities being in whole or in part withdrawn. This rule, however, must not be construed to apply to sales "on account of whom it may concern," under the rules for the regulation of the various departments of trade.

RULE 6. The soliciting of money for any object, on the floor of the Exchange, will not be allowed.

RULE 7. Newspapers on the files must not be mutilated under any circumstances.

*RULE 8. On the death of a member, notice of the same shall, in all cases, be posted in the Exchange Hall; and at the written request of five members, the President shall appoint a committee to prepare a memorial report upon the deceased member, a copy of which report, when approved by the President, shall be entered upon the records of the Association, posted upon the bulletin-board for five days, and a copy furnished the family or friends of the deceased member. At the written request of twenty-five members, the President shall make public announcement of the death of a member, and such action taken as the Association may direct.

RULE 9. No advertisements of any kind shall be displayed upon the walls of the Exchange Hall or other rooms occupied by the Association.

RULE 10. Sample desks shall be provided in the Exchange Hall, the rental for which shall be \$5 per annum, payable in advance. The choice for such desks shall be sold at auction, at such time after the occupation of the new building as may be named by the Board of Directors, and thereafter at such times as said Board may authorize, after the expiration of three years. All samples of grain and flour must be placed in the drawers after the close of 'Change.

RULE 11. Persons shall not be permitted to congregate in the lobby nor in the approaches to the same.

RULE 12. The throwing of dough, flour, grain, or other missiles will not be permitted in the Exchange Hall.

RULE 13. No person shall appear in his shirt sleeves in the Exchange Hall.

RULE 14. No member will be permitted to bring a case before the Board of Directors, or any of the Committees, when he is in arrears for membership dues, desk rent, or fees of any kind.

RULE 15. No person who has been denied membership shall be admitted to the courtesies of the rooms of the Association for a period of six months.

†RULE 16. Smoking in the Exchange Hall, and in the approaches to the same, is forbidden between the hours of 11:30 A. M. and 1 o'clock, P. M., excepting on Saturdays, the time excepted shall be from 10:30 o'clock, A. M., to 11:30 o'clock, A. M. Smoking will be allowed in the apartment known as the Reading Room during the time it is prohibited in the Exchange Hall.

SPECIAL RULE A.—A regulation was adopted by the Board June 1, 1897, whereby members of the Chamber were entitled to the privilege of inviting by card one person not a member of the Chamber of Commerce, but resident of either Hamilton County, Ohio, Campbell or Kenton Counties, Kentucky, extending the courtesies of the floor for five visits within one month, the person so admitted having no business privileges. This regulation was modified August 3, 1897, so that members would be allowed more than one ticket per month if desired; the issuance of tickets to be at the discretion of the Superintendent.

SPECIAL RULE B.—A regulation was adopted on December 6, 1898, by which announcements of members may be posted on bulletin boards in the Exchange Hall, relating to real estate offerings; and also other business announcements of members, subject to the approval and direction of the Superintendent.

* As amended April 6, 1897.

† As amended October 6, 1896.

RULES AND REGULATIONS
OF THE
CINCINNATI CHAMBER OF COMMERCE
AND
MERCHANTS' EXCHANGE,
FOR THE
GOVERNMENT OF VARIOUS DEPARTMENTS OF TRADE.

IN FORCE JUNE 1, 1899.

RULES REGARDING SALES OF HIGHWINES.

RULE 1. Sales of Highwines made "subject to the market," must not be entered with the price affixed. In order to avoid duplication in the sale of Highwines, the person reporting such sale will furnish the name of both buyer and seller, together with the brand of the same.

RULE 2. No sales, aside from those actually made at a fixed price, and for cash, shall in any way affect the market price—by cash being understood, payment the second day after delivery.

RULE 3. Each and every sale of Highwines shall be entered separately.

***RULE 4.** Highwines sold to arrive must be entered with the condition annexed, but shall not affect the market price, but any seller of Highwines, when the terms of sale require delivery at the store of the buyer, can, if mutually agreed, have until noon of the following day to deliver; provided, such Highwines are actually in bond, and the sale is made during 'Change hours, and such a sale shall not be held to be a sale to arrive.

RULE 5. Highwines thirty days old and older shall be quoted as "old" Highwines, without price affixed.

RULE 6. When Highwines are engaged subject to agreement in price, the price may be settled on arrival and quoted.

RULE 7. Transactions between Highwine Commission Merchants, or between Distillers, or between Distillers and Highwine Commission Merchants, can not be quoted; nor can those between Rectifiers or Wholesale Dealers, or Rectifiers and Wholesale Dealers.

RULE 8. Sales made after sounding of the gong can not be quoted on the same day.

RULE 9. The majority of actual sales at a fixed price, not excepted as heretofore, shall make the market price.

RULE 10. Where there are no actual transactions at a fixed price reported, all settlements of sales "at the market," shall be at the price of the previous day.

RULE 11. All Highwines shall be gauged on the day of sale.

†**RULE 12.** The quotations on the books of the Chamber, of sales of Highwines and whisky, shall be for sales, in the re-inspection of which, at the buyer's house, there shall be used the United States Government instruments and manual, and exact fractions shall be computed down to tenths.

‡**RULE 13.** *Distillers' Finished Goods.*—Distillers can quote their aggregate sales of finished goods on any one day by giving the total number of barrels, and the basis price on which such sales are made, or, if based on different prices, the total number of barrels at each basis. Sales can not be quoted after the sounding of the gong; and the majority of the sales at a certain basis shall make the Distillers' basis for the day.

* As amended November 22, to take effect December 1, 1879.

† Adopted January 14, 1880.

‡ Adopted June 7, 1887.

*RULES FOR THE REGULATION OF THE GRAIN TRADE IN CINCINNATI.

RULE I.—COMMITTEE ON GRAIN INSPECTION.

SECTION 1, R. 1.—*Appointment of.*—The Board of Directors shall annually, in the month of October, appoint a Committee on Grain Inspection, consisting of five (5) members, and all of whom shall be dealers in grain.

SEC. 2, R. 1.—*Duties of Committee.*—It shall be the duty of the Committee on Grain Inspection to hear, consider and determine all disputes, differences and controversies arising between members of the grain trade growing out of contracts made under the rules regulating the grain trade of Cincinnati that may be voluntarily submitted to it, and to discharge all such other duties as may be imposed upon it by the rules and regulations of the Chamber of Commerce of Cincinnati.

SEC. 3, R. 1.—*Quorum.*—Three members of the Committee on Grain Inspection shall constitute a quorum for the transaction of business.

SEC. 4, R. 1.—*Temporary Vacancies Filled.*—All temporary vacancies in the Committee on Grain Inspection when it has met for the transaction of business may be filled by the quorum of members present, if so requested, by both parties, and shall be filled by the President of the Chamber of Commerce, if either of said parties litigating request it, before the case is stated. Such temporary appointees shall sit on said committee only during the absence or other inability of the committeemen to be present and serve. Providing that said temporary appointees shall not retire from said committee during a trial or the hearing of any matter then before it—although the regular committeeman shall appear and be ready to serve—and that all such vacancies shall be filled by members representing the same business as the absent members of the committee.

SEC. 5, R. 1.—*How Controversies Submitted to the Committee.*—Any party who desires to submit any controversy under the rules regulating the grain trade of Cincinnati to the Committee on Grain Inspection for determination, shall file with the said committee a written statement of his claim, which statement must contain—

1. The name of the firm or parties making the complaint, and who shall be known as the "complainants;"
2. The name of the firm or parties against whom the complaint is made, and who shall be known as the "respondents;"
3. A statement of the facts constituting the cause of complaint in ordinary and concise language;
4. A demand of the relief to which the party supposes himself entitled.

This written statement shall be known as the "petition," and no other written statement shall be required to be filed by either complainant or respondent.

SEC. 6, R. 1.—*Notice of Time of Hearing.*—Upon said petition named in Section 5 of this rule being filed, it shall be the duty of said committee to give notice of the time and place set for the hearing of said case. Such notice shall give the names of the parties, complainant and respondent, and shall succinctly state the cause of complaint and the relief demanded. This notice shall be served upon the parties in the manner provided for by Section 1 of Rule XIV.

SEC. 7, R. 1.—*Adjournments.*—The committee may, at its discretion, adjourn the time for the hearing of any case, and, after the hearing has commenced, may adjourn from time to time the further hearing thereof to such time as it may deem best.

SEC. 8, R. 1.—*Trial.*—On the trial of any case before said committee, the complainant, or any one of them, if more than one, shall first state his case fully and the evidence by which he proposes to sustain his case, giving the names of the witnesses and what he believes each witness will testify to. The respondent, or any one of them, if more than one, shall then state his answer fully, and what he claims in the transaction, and the evidence by which he proposes to sustain his side of the case, giving the names of the witnesses and what he believes each witness will testify to. The decision of a majority of the committee present and trying the case shall be held as valid and binding, and shall be entered of record in the records of said committee.

SEC. 9, R. 1.—*Notice of Decision.*—Written notice of any final decision rendered by said committee shall be given to the parties, complainant and respondent, immediately upon the rendering of the same.

*Adopted by the Board of Directors, March 20, 1883, to take effect April 15, 1883.

SEC. 10, R. 1.—*Appeal and Notice Thereof.*—Any party to the controversy who may feel aggrieved by the final decision of the Committee on Grain Inspection may appeal the case to the Committee of Arbitration within three days after the delivery of the decision. Notice of said appeal must be made to the Superintendent in writing by the party appealing.

SEC. 11, R. 1.—*Record.*—The Committee on Grain Inspection shall keep a record of its proceedings, and shall leave the same with the Superintendent of the Chamber of Commerce. Said record may be inspected by any member upon application to the said Superintendent.

RULE II.—INSPECTOR OF GRAIN.

SECTION 1, R. 2.—*Appointment and Duties.*—The Board of Directors shall annually, on the second Tuesday in October, or in case of failure to appoint at that time, at any meeting thereafter, appoint a suitable and competent person as Inspector of Grain.

SEC. 2, R. 2.—*Duties of Inspector.*—It shall be the duty of the Inspector to inspect, sample, and grade, according to the classification which may be adopted, from time to time, by the Chamber of Commerce, all grain received in this city, in bulk, except corn on the ear, and grain in transitu, and also except consignments to parties who, on application to the Inspector, may direct him not to inspect their bulk grain without special instructions; and to inspect any other grain when called on to do so by the consignee or purchaser; also, all grain sent by transportation lines, to be stored in elevators or public warehouses, without the consent or knowledge of the consignees. He shall also furnish samples, with grading and car numbers, to consignees, when desired. Inspection to be at the expense of the receiver or consignee.

SEC. 3, R. 2.—*Access to Grain Inspected.*—The Inspector shall have free access to all grain that has been inspected by him, stored in any warehouse or elevator; and when such grain is to be removed from such warehouse or elevator shall, when called upon so to do by any party interested, reinspect the same.

SEC. 4, R. 2.—*Certificate of Inspection.*—A certificate of inspection shall be furnished when required by the party ordering the inspection.

SEC. 5, R. 2.—*Inspection of Grain Sold by Sample.*—Upon any difference of opinion between buyer and seller, when grain has been sold by sample, the Inspector may be called upon to determine the same in manner provided for by Section 4 of Rule VII.

SEC. 6, R. 2.—*When Not to Inspect Grain.*—The Grain Inspector shall not inspect grain at any elevator or warehouse, or for any party, unless the proprietor or manager of such elevator or warehouse, or other party desiring his services, shall conform to the rules in reference to inspections established by the Chamber of Commerce.

SEC. 7, R. 2.—*Inspector Not to Trade, etc.*—The Grain Inspector shall not be allowed to trade in any article of which he is the Inspector.

*SEC. 8, R. 2.—*Fees of Inspector.*—The fees of the Inspector shall be as follows:

Forty (40) cents per car, and fifty (50) cents per midship of canal boats, to all who shall give him permission to inspect all their consignments of bulk grain. The rate of forty (40) cents per car not to apply to any grain loaded from or out of any regular elevator or warehouse, or grain inspected in process of transfer from one road to another.

In sacks, the charge may be one (1) cent per sack for the first one hundred sacks, and one-half ($\frac{1}{2}$) cent per sack for any additional number inspected in one place at one time.

The Inspector shall be privileged to charge one (\$1 00) dollar per car and one (\$1 00) dollar per midship to those for whom he does not uniformly inspect bulk grain, as contemplated in the exception named in Rule II.

For Mill Feed, the fees shall be as follows:

In bulk, one (\$1 00) dollar per car load; in sacks, one (1) cent per sack.

SEC. 9, R. 2.—*Grain in Bags.*—All grain inspected in bags will be graded by the lowest grade found

SEC. 10, R. 2.—*Inspection at Request of Buyer or Seller.*—The buyer or seller shall have the right to call the Inspector to inspect grain purchased or sold—under the rules regulating the grain trade of Cincinnati—and when so called upon, it shall be the duty of the Inspector to make said inspection as soon as practicable.

SEC. 11, R. 2.—*Where Inspection to be Made.*—All inspections of grain by the Inspector shall be made at the place of delivery, unless otherwise agreed upon by the parties.

SPECIAL RULE.—The Board of Directors on July 12, 1898, adopted the following: The practice of members in entering the Grain Inspector's office, when transacting business with that official, should be discontinued, and all business with the Inspector should be done from the outside, through the openings in the office partition intended for that purpose.

*As amended January 4, 1898; effective January 15, 1898.

SEC. 12, R. 2.—*Controversies Referred to Grain Inspector.*—All controversies between the buyer or seller, or other parties, as to the grade of grain purchased, sold, tendered, or delivered, under the rules regulating the grain trade of Cincinnati, shall, at the option of either party, be referred to the Grain Inspector, who shall inspect the grain and determine the controversy, and his decision shall be valid and binding upon the parties. If the grain be not up to grade, the expense of such inspection shall be paid by the seller or party delivering or tendering the grain, unless otherwise agreed upon.

SEC. 13, R. 2.—*Appeals.*—Any party thinking himself aggrieved by any decision of the Inspector, may appeal to the Committee on Grain Inspection, who shall hear and determine the case—but such appeal shall be perfected within twenty-four hours from the date of the decision of the Grain Inspector.

SEC. 14, R. 2.—*Appeals, how Perfected.*—Any party desiring to appeal from the decision of the Grain Inspector to the Committee on Grain Inspection, shall proceed in manner and form as provided in Section 5, Rule I, for the submission of controversies to said committee. When said petition is filed, and written notice thereof given to the respondent by the party appealing, the appeal shall then be held to be perfected.

RULE III.—CLASSIFICATION OF GRAIN.

SECTION 1, R. 3.—WINTER WHEAT.

No. 1 WHITE.—Shall be pure white, bright, sound, reasonably plump, free from smut and other grain, and well cleaned, and shall weigh not less than sixty (60) pounds to the measured bushel.

No. 2 WHITE.—Shall be white, sound and reasonably clean, and shall weigh not less than fifty-eight (58) pounds to the measured bushel.

No. 1 HARD WINTER.—Shall be pure red, composed of Mediterranean, Lancaster and other hard varieties, sound, reasonably plump, well cleaned, and free from smut and other grain, and shall weigh not less than sixty (60) pounds to the measured bushel.

No. 2 HARD WINTER.—Shall be red, composed mainly of the same varieties as No. 1 hard, sound, and reasonably clean, and shall weigh not less than fifty-eight (58) pounds to the measured bushel.

No. 1 RED.—Shall be red and amber, sound, reasonably plump, well cleaned, and free from smut or other grain, and shall weigh not less than sixty (60) pounds to the measured bushel.

No. 2 RED.—Shall be red and amber, and may contain not over ten (10) per cent. of white wheat; shall be sound and reasonably clean, and shall weigh not less than fifty-eight (58) pounds to the measured bushel.

No. 3 RED.—Shall include all sound wheat of any color not fit for higher grades, and not so much damaged from any cause as to be unfit for flouring, and shall weigh not less than fifty-five (55) pounds to the measured bushel.

*No. 4 RED.—Shall be sound but not good enough to grade No. 3, and shall test not less than fifty-three (53) pounds to the bushel.

MIXED WINTER.—Shall be winter wheat, red, amber or white wheat mixed, and shall be equal to No. 2 red wheat in all other respects.

REJECTED.—Shall include all wheat badly damaged, from any cause, as to render it unfit for No. 3.

†TURKISH WINTER.—The grades of Numbers 1, 2 and 3, mixed, and rejected, shall correspond with our same grades of regular winter wheat, except that they shall be of the Turkish variety, or mixtures thereof with other wheat. ■

SECTION 2, R. 3.—SPRING WHEAT.

No. 1.—Shall be bright, sound, plump, and well cleaned; and shall weigh not less than fifty-eight (58) pounds to the measured bushel.

No. 2.—Shall be sound, reasonably clean and reasonably free from other grain; and shall weigh not less than fifty-six (56) pounds to the measured bushel.

No. 3.—Shall include all sound, inferior, shrunken or dirty wheat, not so much damaged, from any cause, as to be unfit for flouring; and shall weigh not less than fifty-four (54) pounds to the measured bushel.

REJECTED.—Shall include all wheat so badly damaged, from any cause, as to render it unfit for No. 3.

In all cases where spring and winter wheat have been mixed, it shall be called spring wheat, and graded according to quality.

*Adopted August 6, 1895.

† In effect November 1, 1893.

SECTION 3, R. 3.—CORN.

No. 1 WHITE.—Shall be white, sound, dry, plump, and well cleaned.

No. 2 WHITE.—Shall be white, sound, dry, and reasonably clean, but may contain a limited number of colored grains.

*No. 3 WHITE.—Shall be equal to No. 2, except that it may contain slightly damp corn, and a few shrunken and rotten grains.

†No. 2 WHITE MIXED.—Shall be mainly white, sound, dry, and reasonably clean, and may contain ten per cent. of colored grains.

No. 1 YELLOW.—Shall be yellow, sound, dry, plump, and well cleaned.

No. 2 YELLOW.—Shall be yellow, sound, dry, and reasonably clean, but may contain a limited number of white or colored grains, other than yellow.

‡No. 3 YELLOW.—Shall be pure yellow, sound, reasonably clean, may be slightly damp, and may contain a limited number of rotten grains.

No. 1 MIXED.—Shall be mixed, sound, dry, plump, and well cleaned.

No. 2 MIXED.—Shall be mixed, sound, dry, and reasonably clean, but not equal to No. 1 corn.

No. 3 MIXED.—Shall be equal to No. 2, except that it may contain slightly damp corn, and a few shrunken and rotten grains.

REJECTED.—Shall include all corn, from any cause, below the grade of No. 3.

SECTION 4, R. 3.—OATS.

No. 1 WHITE.—Shall be pure white, sound, bright, free from other grain, and well cleaned.

No. 2 WHITE.—Shall be white, sound, and reasonably clean, but may contain a limited number of colored oats or other grain.

No. 3 WHITE.—Shall include all light weight and stained oats not fit for No. 2.

No. 1 MIXED.—Shall be sound, bright, free from other grain, and well cleaned.

No. 2 MIXED.—Shall be sound, reasonably clean, and reasonably free from other grain.

No. 3 MIXED.—Shall include all light weight and stained oats not fit for No. 2.

REJECTED.—Shall include all oats, dirty or badly mixed with other grain, or for any cause below No. 3.

SECTION 5, R. 3.—RYE.

No. 1.—Shall be sound, plump, and well cleaned.

No. 2.—Shall be sound, reasonably clean, and not too much mixed with other grain.

No. 3.—Shall include all sound, inferior, shrunken, dirty, or slightly damp rye, not so much damaged, from any cause, as to be unfit for milling or distilling purposes.

REJECTED.—Shall include all rye which is damp, musty, dirty, or for any other cause unfit for No. 3.

SECTION 6, R. 3.—WINTER BARLEY.

No. 1 WINTER.—Shall be sound, plump, clean, bright, and free from other grain.

No. 2 WINTER.—Shall be sound and reasonably clean, but not bright or plump enough for No. 1 (may be slightly broken), and reasonably free from other grain, and shall weigh not less than forty-eight (48) pounds to the measured bushel.

No. 3 WINTER.—Shall include shrunken or otherwise slightly damaged barley; may be slightly mixed with other grain, but not unfit for malting, and shall weigh not less than forty-four (44) pounds to the measured bushel.

EXTRA No. 3 WINTER.—Shall be sound, and may be somewhat stained, but otherwise, except as to weight, equal to No. 2, and shall weigh not less than forty-six (46) pounds to the measured bushel.

SECTION 7, R. 3.—SPRING BARLEY.

No. 1 SPRING.—Shall be same as No. 1 Winter.

No. 2 SPRING.—Shall be same as No. 2 Winter.

No. 3 SPRING.—Shall be same as No. 3 Winter.

EXTRA No. 3 SPRING.—Shall be same as Extra No. 3 Winter.

REJECTED.—Shall include all winter or spring barley, unsound, or below the above standard in other respects.

SECTION 8, R. 3.

No hot grain of any kind will be graded.

* Adopted March 6, 1888.

† Adopted June 15, 1885.

‡ Adopted February 2, 1892.

RULE IV.—ELEVATOR CHARGES.

SECTION 1. R. 4.—*Elevator Charges*.—On all grain, one (1) cent per bushel for the first ten days, or part thereof, and one-third ($\frac{1}{3}$) of one cent for each subsequent ten days, or part thereof, including the delivery in seamless bags. Extra charges for delivery in other kinds of sacks.

RULE V.—MARGINS ON TIME CONTRACTS.

SECTION 1, R. 5.—*Original Margins*.—On all time contracts either party to the contract shall have the right to call upon the other party for original security or margin to an amount not to exceed ten (10) per cent. of the contract price of the property bought or sold; which said ten per cent. may be called for in one or more calls. The party thus calling for original security or margin, shall, if required by the party called, deposit a margin equal in amount to that called for.

SEC. 2, R. 5.—*Additional Margins on Change of Market*.—Either party to a contract, in whose favor the market may be, shall be entitled, at any time before the fulfillment of the same, and after all the original margin has been deposited, to call upon the other party, against whom the market may be, for additional margins to the extent of the difference between the price named in the contract and the market value of the option on the day the call is made, so that the original margin shall be kept good and intact as security for the fulfillment of the contract. Said additional margin is to be deposited by the party only against whom the market may be.

SEC. 3, R. 5.—*Calls for Margins—Contents of*.—All calls for margins shall designate: (1,) Upon what contract the same is made, or upon open deals. (2,) The kind of margin called for—whether original or additional. (3,) The place of deposit. (4,) And the date of the call.

SEC. 4, R. 5.—*Place of Deposit of Margins*.—All securities or margins shall be deposited with the Citizens' National Bank of Cincinnati, unless otherwise agreed upon.

SEC. 5, R. 5.—*Time for Depositing Margins*.—When a call is made for margins, either original or additional, the party called shall make the deposit within the next three (3) banking hours after receiving notice of the call. Provided, however, if the call is made during 'Change hours, the deposit shall be made before three (3) o'clock P. M. the same day.

SEC. 6, R. 5.—*Certificates of Deposit*.—All parties who receive deposits of margins shall issue certificates in duplicate, not transferable, for all such deposits. Said certificates shall state by whom the deposit was made, for whose security the same is held, the amount of the deposit, and whether it be original or additional margins; that the deposit has been made under the rules of the Chamber of Commerce of Cincinnati, and is payable upon the return of the certificate or its duplicate, duly indorsed by the parties to the contract or contracts, or on the order of the President of the Chamber of Commerce, duly indorsed thereon, or on return of the original certificate, the duplicate remaining with the party holding the deposit and not covered on call by an equal deposit of original margins within the time provided for in Section five (5) of this rule; as provided for in the rules of the Chamber of Commerce of Cincinnati regulating the grain trade. Said certificate shall be in the following form, to wit:

ORIGINAL (or) DUPLICATE.

Not Negotiable or Transferable.

CINCINNATI, _____, 18—.

_____ has deposited with _____, _____ dollars, as original or additional margin or security on a contract or contracts between the depositors and _____, which amount is payable on the return of this certificate or its duplicate duly indorsed by both of the above named parties, or on the order of the President of the Chamber of Commerce of the City of Cincinnati, indorsed on either the original or duplicate hereof, or the duplicate remaining with _____, and not covered by deposit of an equal original margin, by _____ o'clock, —. M., on the _____ day of _____, 18—, on return of this original certificate, as provided by the rules of the said Chamber of Commerce, under which the above named deposit has been made.

By _____, Cashier.

SEC. 7, R. 5.—*Deposits Security for What Contracts*.—All deposits so made shall be held to have been made as security for the faithful fulfillment of any contracts made, or to be made, between the parties during the time the deposit shall remain unpaid. *Provided*, it shall be competent for either party to a contract to demand that the certificate shall express the particular contract upon which the deposit shall have been made, and in such case the deposit shall be applicable only to the settlement of that contract.

SEC. 8, R. 5.—*Notice of the Deposit of Margins.*—The party who deposits margins under this rule shall forthwith, after making such deposit, give notice of the same to the party calling by depositing the duplicate certificate provided for in Section six (6) of this rule with the party calling, or with his authorized representative, or with any clerk representing the party on 'Change, or by leaving it at his usual place of business in Cincinnati; and, in case the party calling shall not be known to have a usual place of business in Cincinnati, such duplicate certificate may then be left with the Superintendent of the Chamber of Commerce. *Provided, however,* if the party depositing original margin calls the other party for an equal original margin, then the duplicate certificate shall be left with the party holding the deposits, and notice thereof shall be forthwith given with the notice of the call by the party thus calling for an equal original margin in the manner provided for by Section 1 of Rule XIV.

SEC. 9, R. 5.—*Failure to Deposit Original or Additional Margins.*—Any party who shall contract to buy or sell property and who shall fail to respond within the time provided in Section five (5) of this rule after having been called upon for either original or additional margins, shall be judged to have broken his contract. And in such case the party who has called for such margins shall have the right, at his option: (1,) if he be the seller, to resell the property for account of the delinquent, on the same or the next business day after the call is made, such resale to be for the same delivery as named in the original contract; or, (2,) if he be the buyer, to repurchase the property for account of the delinquent, on the same or the next business day after the call is made, deliverable at the time named in the original contract; and all differences between the contract price and the price at which the property may have been sold or bought (as the case may be) in consequence of such default, shall constitute the rule and measure of damages against the party in default; or, (3,) the party calling may consider the contract then terminated as of the date of the call, and the amount to be paid upon the contract, in such last named case, shall be the difference between the market value at the date of the call and the contract price of the article bought or sold, and said difference shall be immediately due and payable; in case the parties do not agree upon this difference within three (3) business days thereafter, then the matter may, by either party, be referred to the Committee on Grain Inspection for determination. The party calling for margins shall at once (on failure of the party called to respond as aforesaid) notify the said party what action under this section he elects to take. *Provided, however,* the party calling may elect to permit the contract to stand, in which case no notice to that effect shall be necessary to the delinquent; but, in such case, if the call upon which default was made was for an equal original margin, then the party calling may have a release of original margin as provided for in Sections 13 and 14 of Rule V, as the case may be.

SEC. 10, R. 5.—*Excessive Calls for Additional Margin.*—When any party to a contract upon whom a call for additional margin has been made considers the call excessive, he shall forthwith (1,) give written notice to the party calling that he considers the call excessive, and that he desires to submit the question to the Committee on Grain Inspection, and (2,) he shall at once submit the matter to said committee, in manner provided for in Section 5 of Rule I. The said committee shall, as soon as practicable, determine the proper amount of margin to be deposited on such call. If the margin required by the committee is not deposited within one (1) banking hour after its decision has been made and notice thereof given to the party upon whom the call is made, the party calling may proceed, at his option, under Section 9 of Rule V, as though no reference had been made to the Committee on Grain Inspection.

SEC. 11, R. 5.—*Release of Excessive Original Margins.*—In case it should appear that, by reason of delivery upon or the settlement of a portion of the contracts upon which original margins or securities have been deposited are properly applicable, a larger sum remains on deposit than is necessary for the proper security of unadjusted contracts, either party shall have the right to demand that such portion of the margins be released, and, in the event of either party refusing to release such portion of the margins, the party asking for same may apply to the Committee on Grain Inspection for relief, who shall have the power to estimate and determine the value of the property for marginal purposes, covered by any contract upon which the deposit has been made, and to direct the payment of such portion of the margin as may, in their judgment, be proper to the party making the application. Upon request of either party, said committee shall deliver a certified copy of said decision to the President of the Chamber of Commerce, whereupon the said President shall indorse on either the original or duplicate certificate an order for the payment of the amount of the original margin to be released and paid, and issue a duplicate of said order to the party holding said certificate for delivery to the party holding said deposit; said duplicate order shall be sufficient warrant to the party holding the deposit to pay said sum so indorsed in accordance with said order.

SEC. 12, R. 5.—*Release of Excessive Additional Margins.*—When additional margins have been called and deposited under Section 2 of Rule V, and the market shall recede or advance to the extent of such additional deposits, or any of them, then such additional deposit or deposits may be withdrawn by the party making the same, with the consent of the other party to the contract, evidenced by the indorsement of the margin receipt; and in case such withdrawal is objected to by the other party, the party claiming the same may apply to the Committee on Grain Inspection, who shall have the power to estimate and determine the value of the property for marginal purposes covered by any contract upon which the deposit has been made, and to direct the payment of the deposit or deposits to the party claiming the same. Upon the request of either party, said committee shall deliver a certified copy of said decision to the President of the Chamber of Commerce. Whereupon the said President shall indorse on either the original or duplicate certificate an order for the repayment of said additional margin, and such order shall be sufficient warrant to the party holding the deposit to pay said sum so indorsed in accordance with said order.

SEC. 13, R. 5.—*Release of an Original Margin on Default before Duplicate Receipt has been Delivered.*—Any party having deposited on call original margin or margins under Section 1 of Rule V, and who has left the duplicate receipt with the party holding the deposit and given the notice thereof, as provided for in Section 8 of Rule V, shall have the right to withdraw said deposit or deposits in case the other party, if called for an equal original margin, fails to deposit the same within the time provided for in Section 5 of Rule V, and the party holding said original margin or margins shall return them upon demand to the party who made the deposit. The party calling for said equal original margin shall also have, at his option, all or any of the rights given to him in Section 9 of Rule V. *Provided, however,* that the right to have an original margin released under this section shall relate only to the particular original margin or margins thus deposited, the duplicate receipt of which remains with the party holding the margin and not covered by an equal deposit after notice given.

SEC. 14, R. 5.—*Release of Original Margins on Default after Duplicate Certificate has been Delivered.*—Any party who deposits an original margin on call and does not at that time call for an equal margin, but delivers the duplicate certificate as provided for in Section 8 of Rule V, shall have the right at any subsequent time to call for an equal original margin, and, in case the same is not deposited within the time provided for in Section 5 of Rule V, the party calling shall have the right to submit the case to the Committee on Grain Inspection. If the committee finds that the call has been regularly made, and the equal original margin was not deposited within the time provided for under Section 5 of Rule V, then the committee shall order the said uncovered original margin or margins to be returned to the party who deposited the same, and shall certify their said order to the President of the Chamber of Commerce. The President of the Chamber of Commerce shall thereupon indorse on the original certificate an order for the repayment of said margin or margins, and said order shall be sufficient warrant to the party holding the deposit to pay the sum so indorsed.

SEC. 15, R. 5.—*Release of Margins, Original and Additional, in Fulfillment of Contract.*—On the fulfillment or settlement of any contract upon which deposits have been made, and when full adjustment of all differences relating to the same shall have been effected, the deposits shall thereupon be payable to the party depositing the same; and the joint indorsement of both parties upon the certificate shall be sufficient authority to the party holding the deposit to pay the same to the holder of the certificate; or, in case of failure between the contracting parties to adjust and settle their respective claims upon the deposit within three (3) business days after the maturity of all contracts upon which the deposit is applicable, the matter in dispute shall, upon the application of either party to such contracts, be submitted to the Committee on Grain Inspection, which committee shall, without unnecessary delay, determine in what manner and to whom the deposit is payable, either wholly or in part. Upon the request of either party, said committee shall deliver a certified copy of said decision to the President of the Chamber of Commerce, whereupon the President shall indorse on either the original or duplicate certificate an order for the payment of such deposit, in accordance with the decision of said committee, and such order shall be sufficient warrant to the party holding the deposit to pay the same in accordance with such order.

SEC. 16, R. 5.—*Duty of President in Regard to Release of Margins.*—In no case shall the President of the Chamber of Commerce indorse an order for the release of any margin—original or additional—until three (3) days have elapsed after the delivery of the decision of the Committee on Grain Inspection. If an appeal has been taken and perfected to the Committee of Arbitration, and written notice thereof given to the President personally, giving also the names of the parties litigant and the substance of the decision appealed from and notice not to make the indorsement, then, in

case the award of the Committee of Arbitration orders any margins to be released or repaid, and the said order is certified to the President, the President shall not indorse said order for the release of the margins until ten (10) days shall have elapsed after the award of the Committee of Arbitration has been formally made known to the parties. If within said ten (10) days next after the award of the Committee of Arbitration has been made known as aforesaid, written notice is served upon the President personally that a bill of exceptions has been filed with the Board of Directors, giving also the names of the parties litigant and the substance of the award and notice not to indorse the same, the President shall withhold the indorsement until after the Board of Directors shall have heard and determined the matter. If at such hearing a new trial be allowed, then the President shall not make such indorsement; but if at said hearing a new trial be not allowed, then the President shall make said indorsement, upon receiving from the party entitled thereto a certified copy of the order of the Board of Directors. *Provided*, that if the party who appeals or files said bills of exceptions fails to serve the President personally with the said written notice above designated within the hereinbefore designated time respectively for perfecting the appeal or filing the bill of exceptions, as the case may be, then the President shall indorse said order, whether an appeal has been perfected or a bill of exceptions has been filed or not, and the party appealing or filing said bill of exceptions shall lose all interest in the money thus ordered to be paid, and shall have no right in any event to recover the same from the party to whom it has been paid or from the party paying the same upon said indorsed order.

SEC. 17, R. 5.—*Value of Property for Marginal Purposes, how Determined.*—In determining the value of property under Rule V, its value in other markets, or for manufacturing or consumptive purposes in this market, together with such other facts as may justly enter into the determination of its value, shall be considered, irrespective of any fictitious price it may at the time be selling for in this market, but nothing contained under Rule V shall be construed as authorizing unjust or unreasonable claims based upon manipulated or fictitious markets. Such values for marginal purposes, in case of disagreement between the parties, shall, at the option of either party, be referred to the Committee on Grain Inspection for determination.

RULE VI.—DELIVERIES.

SECTION 1, R. 6.—*Manner of, Delivery of, and Payment for Grain Sold in Elevator.*—The delivery of grain sold in elevator shall be made by the tender of regular elevator receipts, which shall have three (3) full days' free storage at the time of such tender. Upon such tender being made the contract price of grain thus sold shall be due and payable.

SEC. 2, R. 6.—*Regular Elevator Receipts.*—A regular elevator receipt called for in Section 1 of Rule VI shall be for grain in elevator, in Cincinnati, connected by railroad tracks or canal, and to and from which, said railroad tracks or canal, and said elevator, grain can be directly handled—said elevator to be managed by either a corporation, firm, or individual, for the purpose of carrying on the business of receiving, storing, delivering, and forwarding grain of all kinds. Said corporation, firm, or individual may, in connection therewith, do the business of general storage, warehousemen, and forwarders of all kinds of produce or merchandise—but shall not, on his own account, nor for others, deal as buyers or sellers. *Provided, however*, that before such elevator receipt shall be deliverable on contract the following conditions must be done and had: First, the parties managing such elevator shall have filed with the Board of Directors of the Chamber of Commerce a statement, showing that the said elevator has complied with this Section 2 of Rule VI; and second, the Board of Directors shall have declared by resolution the said elevator regular.

SEC. 3, R. 6.—*Manner of Delivery of and Payment for Grain Sold on Track.*—The delivery of grain sold on track shall be made by the tender of a written order for the property on some standard or broad-gauge railroad company entering and having an office in Cincinnati, properly accepted by such railroad company, together with the certificate of the Grain Inspector. Upon such tender being made, the seller shall have the right to demand of the buyer three-fourths ($\frac{3}{4}$) of the contract price upon a basis of twenty-eight thousand (28,000) pounds per car, and the buyer shall have five (5) days' time in which to furnish seller weights and pay the balance of the contract price. In case weights are not furnished within the said five days, the seller shall have the right to settlement at shippers' weights, when properly certified to and duly tendered.

Sec. 4, R. 6.—Form of Acceptance by the Railroad Company.—The acceptance by the railroad company called for in Section 3 of Rule VI shall be in the following form, to wit:

CINCINNATI, OHIO, _____, 18—.

The _____ railroad company hereby certifies that the grain covered by the within order has arrived and is now in the possession of the said railroad company in Cincinnati.

(Signed.)

_____ Railroad Company.

By _____, Agent.

Sec. 5, R. 6.—Penalty for Giving More than One Order for Same Property.—Any member who shall give more than one order called for under Section 3 of Rule VI for the same lot of grain, and shall receive advances thereon, shall, on conviction thereof, be expelled from the Chamber of Commerce.

Sec. 6, R. 6.—Time of Delivery on Time Contracts at Buyer's Option.—On time contracts made between members of the Chamber, when grain is bought at buyer's option, the time of delivery shall be as follows: When the call is made by the buyer before 11 o'clock A. M., the property shall be due and deliverable before 3 o'clock P. M. of the same day; when the call is made after 11 o'clock A. M., the property shall be due and deliverable before 3 o'clock P. M. of the same day, or between 9 o'clock A. M. and 12 o'clock M. of the next day; or the buyer may specify any particular future day, during the term of option, upon which the property shall be due and deliverable, and the property shall be due before 12 o'clock on the day designated. If no call is made, the property shall be deliverable before 12 o'clock M. on the day of maturity of contract, except as to deliveries on the last business day of the month, which shall be delivered as provided for in Section 10, Rule VI.

Sec. 7, R. 6.—Time of Delivery on Time Contracts at Seller's Option.—On contracts for grain at seller's option, the seller may deliver the property on any day during the life of the option, between the hours of 9 A. M. and 3 P. M.

Sec. 8, R. 6.—Time of Delivery on Spot Sales.—On contracts for grain purchased or sold for spot delivery, the property shall be deliverable before 3 o'clock P. M. of the day of sale, or between 9 and 11 o'clock A. M. of the next business day, except spot sales made on the last business day of the month, which shall be delivered prior to two (2) o'clock P. M. of said day on the floor of the Chamber of Commerce.

Sec. 9, R. 6.—No Delivery on Sunday, etc.—When a contract shall mature on Sunday, a legal holiday, or on a day on which there is no meeting of the Chamber, delivery on such contract shall be made on the preceding business day. No property shall be tendered on any day upon which there is no meeting of the Chamber of Commerce.

Sec. 10, R. 6.—Place of Delivery.—In all sales of property under the rules regulating the grain trade of Cincinnati, when not otherwise provided for by the terms of the contract, or when notice has not been given, as provided for under Section twelve (12) of Rule six (6), all deliveries and tenders of delivery of property shall be made at the buyer's usual place of business in Cincinnati. In case the buyer has no usual place of business in Cincinnati, then the delivery or tender of delivery to the Superintendent of the Chamber of Commerce of Cincinnati shall be held to be a good, valid and sufficient delivery of such property. *Provided, however,* that all deliveries or tenders of delivery of property made or to be made on the last business day of each month shall be made on the floor of the Chamber of Commerce, between the hours of one (1) and three (3) o'clock P. M. of said day, anything in these rules to the contrary notwithstanding. And it shall be the duty of all members having open deals to be present on said floor in the Chamber of Commerce, either in person or by agent, or by some other authorized party, during said hours, to receive such property when properly tendered.

Sec. 11, R. 6.—Tender During Temporary Absence of Purchaser—Notice to be Left at Office.—In the case of the tender of property during the temporary absence of the purchaser from his place of business, notice of such tender shall be left at his office, and he shall have the right to call for the same, and pay for it within one hour thereafter.

Sec. 12, R. 6.—Notice May be Given of Intended Delivery on 'Change.—On all time sales the seller may before three (3) o'clock P. M. of the business day next prior to the intended delivery of the property, give notice to the purchaser that he will deliver or tender delivery of the property on 'Change during 'Change hours on the next business day immediately after the date of said notice. *Provided, however,* this section shall not apply when by the terms of the contract a place for the delivery has been agreed upon by the parties.

SEC. 13, R. 6.—*Duty of Purchaser to be Present as Notified.*—It shall be the duty of the purchaser in time sales, when notified as provided in Section twelve (12) of Rule six (6), to be present, either in person or by agent, or by some other authorized party, on 'Change during 'Change hours on the day named in said notice when the said property is to be delivered or tendered.

SEC. 14, R. 6.—*When Notice Not Given Under Section 12 of Rule VI.*—In case the seller does not give the notice designated in Section twelve (12) of Rule six (6), then the purchaser shall not be required to be present on 'Change as required in Section thirteen (13) of Rule six (6), and the delivery of the property in such case shall be as provided for in Section ten (10) of Rule six (6).

SEC. 15, R. 6.—*Default of Delivery After Notice.*—When notice of intention to deliver or tender delivery of property is given under Section twelve (12) of Rule six (6) and the seller fails to deliver or tender delivery of the property, the buyer shall have the right to claim a non-fulfillment of the contract, and he may proceed, under Section sixteen (16) of Rule six (6), the same as if the contract had matured and no delivery made.

SEC. 16, R. 6.—*Failure to Deliver at Maturity of Contract.*—In case any property contracted for future delivery is not delivered at maturity of contract, the purchaser may, at his option: (1,) consider the contract forfeited; or (2,) he may purchase the property in the open market on 'Change the same or next business day for account of the seller, notifying him at once of such purchase; or (3,) he may require a settlement with the seller at the market price on the day of maturity of contract. And in case the parties can not agree upon the said market price within three (3) days after the maturity of the contract, then the matter may be referred by either party to the Committee on Grain Inspection for determination.

SEC. 17, R. 6.—*Failure to Receive and Pay for Property when Tendered.*—In case any property contracted for future delivery is not received and paid for when properly tendered, it shall be the duty of the seller, in order to establish any claim on the purchaser, to sell it at auction during 'Change hours of the same or next business day following after such default shall have been made, notifying the purchaser on the same day of such sale; and any loss resulting to the seller shall be paid by the party in default.

SEC. 18, R. 6.—*Limitations of Sections 16 and 17 of Rule VI.*—Sections sixteen and seventeen (16, 17) of Rule six (6) shall not be construed as authorizing unjust or unreasonable claims, based upon manipulated or fictitious markets, and in case of dispute as to the value or market price of the property bought or sold, the same shall be determined under the limitations and in the manner provided for in Section 17, Rule V.

SEC. 19, R. 6.—*Tender of Higher Grades of Grain.*—On contracts for grain for future delivery, the tender of a higher grade of the same kind of grain than the one contracted for shall be deemed sufficient, provided the higher grade of grain tendered shall not be of a color or quality that will depreciate the value of the other, if mixed.

SEC. 20, R. 6.—*Tender of Grain of Equal Grade by Elevator Companies.*—Elevator companies must deliver grain equal to the standard of the grade called for by the elevator receipt.

SEC. 21, R. 6.—*Delivery in Lots of Five Car Loads.*—The delivery of grain sold in lots of five (5) or more car loads shall be made in lots of not less than five (5) car loads each.

RULE VII.—SALES BY SAMPLE.

SECTION 1, R. 7.—*Not Up to Sample.*—If grain sold by sample should prove not up to sample, the purchaser may demand, within twenty-four hours after notice to the seller, the amount of grain purchased up to sample, or payment of such difference in value as may be established, unless otherwise agreed upon at the time of sale.

SEC. 2, R. 7.—*Sold to Arrive and Not Up to Sample.*—In case grain is sold to arrive, and upon its arrival shall prove not up to sample or grade in which the same has been sold, then the seller shall have twenty-four hours in which to furnish the amount of grain sold up to sample or grade, unless otherwise agreed upon at the time of purchase.

SEC. 3, R. 7.—*When and Where Examined—Accepted or Rejected.*—All grain sold by sample other than that of the Inspector, shall be examined by the purchaser at the place of delivery, and shall be accepted or rejected within forty-eight (48) hours from the time the order is given for the same.

SEC. 4, R. 7.—*Inspector to Decide.*—Upon any difference of opinion between buyer and seller, when grain has been sold by sample, the Inspector may be called upon to decide the case by com-

parison, and in such case the sample may be required by either buyer or seller to be, in the presence of both buyer and seller, furnished the Inspector, who shall inspect it as soon as practicable after the request shall have been made. If not up to sample, the expense of such inspection shall be paid by the seller, unless otherwise agreed upon. Appeal may be had from the decision of the Grain Inspector under this section, as provided for in Section thirteen (13) of Rule two (2).

RULE VIII.—TERMS OF SALE.

SECTION 1, R. 8.—All purchases of grain made, unless otherwise agreed upon, are understood to be for cash, and to be paid for on delivery.

RULE IX.—WEIGHING.

* SECTION 1, R. 9.—*Weighing, Where, etc.*—All grain, hay and feed shall be weighed at the place of delivery, by a weigher appointed by the Chamber of Commerce or his duly appointed deputy, unless otherwise agreed between buyer and seller; the expense of weighing to be borne by the seller.

SEC. 2, R. 9.—*Charge for Weighing.*—The charge for weighing car lots shall not exceed one dollar per car, unless weighed in racks in store or depots, and then not to exceed 1 cent per 100 pounds.

† SEC. 3, R. 9.—*Grain Unloaded on Public Landing or Water Street.*—All grain unloaded on the Public Landing or Water Street must be hauled over the Public Landing scales, and the weigher can not issue certificates unless weighed in this manner.

‡ SEC. 4, R. 9.—*Rules Governing Weighers.*—All wagons to be used in the removal of contents of a car to be weighed must be weighed empty prior to loading from the car, and such wagons must be stripped of all movable covers, tarpaulins, or other articles. All boxes attached to such wagons must be opened and inspected by the weighers before such wagons are weighed. Empty wagons must be weighed at least once a day, and as often as the weigher requires. No wagons shall be allowed to go to cars after 6 o'clock P. M. or before 6 o'clock A. M. without the weigher having been notified of such intention. No sacks shall be allowed to be weighed in empty wagons. These rules must be framed and hung in the offices of all Public Weighers under appointment of the Cincinnati Chamber of Commerce.

§ SEC. 5, R. 9.—*Rules Governing Car Load Weighing.*—Chamber of Commerce official weighers, when weighing in car load lots, are required to weigh gross and tare on the same day, and if any weather changes between time of weighing gross and tare during same day, then cars must be re-weighed. If a car can not be transferred on the day of weighing gross, it must be re-weighed on the day of transfer. This rule is imperative and there must be no deviation.

|| SEC. 6, R. 9.—*Certificates of Weight.*—Certificates issued by public weighers must show the entire contents of each car unloaded, or exceptions noted; and they must show the initial and number of cars from which the property was unloaded. Certificates of weight of grain, hay or feed, in addition to indicating the entire contents of the car weighed, shall report the condition of the car, with such other details as the nature of the case calls for. Public weighers, under appointment of the Cincinnati Chamber of Commerce, shall use such form of certificates as shall be approved and adopted by the Board of Directors. Original and duplicate certificates shall be furnished to the party ordering the weighing, and a copy shall be given to any member representing to the weigher that he is the seller of the property weighed.

** SEC. 7, R. 9.—*Rules Governing Jumbo Transfer Weighing.*—Transfer elevators known as Jumbos shall be under the control of weighers appointed by the Chamber of Commerce, or duly appointed deputies. On grain sold on track, or to arrive, that arrives by a railway having Jumbo transfers, the Jumbo weight certificate shall govern settlements. For the Jumbo transfer elevator service a fee not exceeding one (1) dollar per car for weighing and transfer may be charged.

†† SEC. 8, R. 9.—*General Regulation.*—Weighers under appointment of the Chamber of Commerce shall not be permitted to weigh commodities in which they are interested as buyers or sellers.

RULE X.—AMOUNT OFFERED AT CALL-BOARD.

SECTION 1, R. 10.—All offers of future deliveries of grain on call-board shall be in lots of 2,500 bushels, or any multiple thereof, and all offers of less than five car loads shall not be entertained by the caller.

* As amended February 6, 1894.

‡ Adopted July 7, 1896.

§ Adopted May 4, 1897.

† Adopted February 7, 1893.

‡ Adopted June 1, 1897; amended August 2, 1898, by adding last clause.

†† Adopted February 3, 1891.

RULE XI.—CAR LOAD.

* SECTION 1, R. 11.—In sales of car lots of grain to arrive, unless otherwise stated, a car load of corn shall be 28,000 pounds, rye 28,000 pounds, oats 32,000 pounds, wheat 30,000 pounds, and barley 30,000 pounds, any excess or deficiency to be settled at the market ruling on the day of delivery.

RULE XII.—'CHANGE HOURS.

SECTION 1, R. 12.—'Change hours under the rules for the regulation of the grain trade of Cincinnati shall be held to be from 11:30 A. M. to 1:30 P. M. of each day upon which there is a meeting of the Chamber of Commerce.

RULE XIII.—DISPUTES REFERRED TO THE COMMITTEE ON GRAIN INSPECTION.

SECTION 1, R. 13.—All matters of dispute, difference, or controversy between parties growing out of contracts under the rules regulating the grain trade of Cincinnati not otherwise specially provided for, which the parties do not settle, may, if arbitrated, be referred to the Committee on Grain Inspection, and said committee shall hear and determine the matter, and the decision of said committee shall be valid and binding.

SEC. 2, R. 13.—*Effect of Offer to Submit Dispute to Grain Committee.*—In case of any disagreement arising from any action taken under these rules, the expressed willingness of either party to the controversy to submit the pending question of difference to the Committee on Grain Inspection or of Arbitration for determination shall be accepted and construed by the Board of Directors as evidence on the part of such member of his readiness to adjust and settle his said disputed obligation and he shall not, therefore, be subject to discipline for such matter pending such proffered submission if he shall abide by the same in good faith, and, in case of an award promptly perform such award.

RULE XIV.—NOTICES, SERVICE OF.

SECTION 1, R. 14.—*Service of Notices.*—Unless otherwise specially provided, all notices for the call of margin for the closing of contracts, and all notices, for any and all other purposes required to be given by the rules regulating the grain trade of Cincinnati, may be served personally on the party to be notified, or upon his authorized representative, or upon any clerk representing the party on 'Change, or by leaving written notice at the party's usual place of business in Cincinnati; and, in case the party to be notified shall not be known to have a usual place of business in Cincinnati, a written notice left in the office of the Superintendent of the Chamber of Commerce shall be deemed sufficient.

RULE XV.—TIME, HOW COMPUTED.

SECTION 1, R. 15.—*How Time Computed.*—Unless otherwise specially provided, the time within which an act is required by the rules regulating the grain trade of Cincinnati to be done shall be computed by excluding the first day and including the last, and if the last be Sunday, it shall be excluded.

RULE XVI.—CONTRACTS NOT TRANSFERABLE.

SECTION 1, R. 16.—No contract or agreement for the purchase or sale of any property under the rules regulating the grain trade of Cincinnati shall be transferred, assigned, or sold, under any circumstances, without the written consent of all parties to the contract.

RULE XVII.—ELEVATOR MANAGERS TO FURNISH REPORTS, GIVE NOTICE OF CHANGES, ETC.

SECTION 1, R. 17.—*To Furnish Weekly Reports to the Superintendent.*—The managers of regular elevators shall honestly and faithfully furnish to the Superintendent of the Chamber of Commerce all needed information to enable him to keep a correct record and account of all grain, together with the grade thereof, received and delivered by them weekly, and of that remaining in store at close of each week. And it shall be the duty of the Superintendent of the Chamber of Commerce to aggregate such records and to post them in a public place in the Chamber of Commerce, on the first business day of each week.

* As amended December 5, 1887. Previous to this, the uniform weight of a car load of grain of any kind was 28,000 pounds.

SEC. 2, R. 17.—*To Publish Damage to Grain Held in Store.*—Managers of such elevators shall promptly, by proper publication, advise the trade and the public of any damage to grain held in store by them, whenever such damage shall occur to any extent, that will render them unwilling to purchase and withdraw from store, at their own cost, all such damaged grain.

SEC. 3, R. 17.—*Important Changes in Condition of Elevator, or Disregard or Evasion of Requirements.*—Any important change in the condition of any elevator, or disregard or evasion of the above requirements, shall at any time be a sufficient cause for the Board of Directors to declare such elevator no longer regular within the meaning of the Rules of the Chamber of Commerce.

RULES FOR THE GOVERNMENT OF THE HAY TRADE.

The Board of Officers of the Cincinnati Chamber of Commerce, on the second day of May, 1882, authorized the appointment of an Inspector of Hay, who should be amenable to the same rules that governed other Inspectors of the Chamber, and adopted rules for the regulation of the Hay trade, which were amended on February 19, 1895, as follows:

CLASSIFICATION OF HAY.

CHOICE TIMOTHY.—Shall be Timothy not mixed with over one-twentieth other grasses, properly cured, bright natural color, sound and well baled.

No. 1 TIMOTHY.—Shall be Timothy not more than one-fifth mixed with other tame grasses, properly cured, good color, sound and well baled.

No. 2 TIMOTHY.—Shall include all Timothy not good enough for No. 1, not over one-third mixed with other grasses, sound and well baled.

No. 3 TIMOTHY.—Shall include all Hay not good enough for other grades, sound and well baled.

No. 1 CLOVER, MIXED.—Shall be Timothy and Clover mixed, with at least one-half Timothy, good color, sound and well baled.

No. 2 CLOVER, MIXED.—Shall be Timothy and Clover mixed, with at least one-third Timothy, reasonably sound and well baled.

No. 1 CLOVER.—Shall be medium Clover, not over one-twentieth other grasses, properly cured, sound and well baled.

No. 2 CLOVER.—Shall be Clover, sound, well baled, not good enough for No. 1.

No GRADE.—Shall include all Hay badly cured, musty, stained, or in any way unsound.

CHOICE PRAIRIE.—Shall be Upland, of bright color, well cured, sweet, sound and reasonably free from weeds.

No. 1 PRAIRIE.—Shall be Upland, and may contain one-quarter Midland of good color, well cured, sweet, sound and reasonably free from weeds.

No. 2 PRAIRIE.—Shall be Upland, of fair color, or Midland of good color, well cured, sweet, sound and reasonably free from weeds.

No. 3 PRAIRIE.—Shall be Midland, of fair color, or Slough of good color, well cured, sound and reasonably free from weeds.

No. 4 PRAIRIE.—Shall include all Hay not good enough for other grades, and not caked.

No GRADE PRAIRIE.—Shall include all Hay not good enough for other grades.

CLASSIFICATION OF STRAW.

No. 1 STRAIGHT RYE.—Shall be in large bales, clean, bright long Rye, pressed in bundles, sound and well baled.

No. 2 STRAIGHT RYE.—Shall be in large bales, long Rye, pressed in bundles, sound and well baled, not good enough for No. 1.

TANGLED RYE.—Shall be reasonably clean Rye, good color, sound and well baled.

WHEAT.—Shall be reasonably clean Wheat, sound and well baled.

OAT.—Shall be reasonably clean Oat, sound and well baled.

***FEES FOR INSPECTION.**

The fee for the inspection in cars shall be fifty (50) cents per car, to be paid by the owner or seller; all Hay in sight at both doors to be inspected. On any complaint at the unloading of the car the Inspector shall reinspect, with an additional charge of fifty (50) cents per car, unless he is requested by the party calling for the reinspection to examine every bale as it comes from the car, then the fee shall be one (1) dollar per car for reinspection. All facilities and additional expenses for reinspection must be furnished by the party calling for reinspection. The fee for inspecting at the river shall be two (2) cents per bale for large bales; one (1) cent per bale for half and third bales; and one-half ($\frac{1}{2}$) cent per bale for quarter bales, to be paid by the owner or seller.

† RULES GOVERNING THE FLOUR TRADE.

RULE 1. Any member of the Cincinnati Chamber of Commerce desiring to become a Flour Inspector may make application to the Board of Directors, who shall judge as to his fitness and capability to perform the duties of Inspector, and if elected he shall give bond to the satisfaction of the Board for the faithful performance of his duties and for the payment of all damages assessed against him by the Flour Inspection Committee. The Board of Directors shall have power to suspend or dismiss an Inspector at any time. An Inspector shall not be directly or indirectly engaged in the Flour trade.

RULE 2. The Inspector shall, when directed, carefully inspect Flour submitted to him, and decide on its grade and soundness, being governed by the standards furnished by the Flour Inspection Committee, and may brand it, using stencils indicating grade and Cincinnati Chamber of Commerce inspection, and the month in which it is inspected in numerals. An appeal may be taken to the Flour Inspection Committee from the decision of the Inspector, and he shall brand the Flour according to the decision of said committee.

RULE 3. The Inspector, failing to grade Flour in accordance with the standards furnished, shall be liable for any damage resulting from such failure, and shall be subject to pay such fines as the Flour Inspection Committee may deem proper to impose.

RULE 4. Flour offered for inspection or examination shall be placed in such a position that it may be carefully examined by the Inspector; and should the owner or buyer, upon removing the Flour to his store or warehouse, find any of it not inspected, it shall be the duty of the Inspector to complete the inspection of said Flour upon the request of either the owner or buyer.

RULE 5. The Inspector shall receive two (2) cents for each barrel inspected, to be paid by the receiver or owner, and shall also be entitled to the Flour drawn from the barrels.

RULE 6. The scoop used by the Inspector shall not exceed one inch in diameter and thirty-two inches in length, exclusive of the shank of the handle, and not more than one scoopful shall be drawn from each barrel.

RULE 7. The Inspector shall, at the request of the party for whom the Flour is inspected, furnish certificate stating brand, number of barrels, and grade; and if the barrels of any lot of Flour are short in weight, not head-lined, or unfit for the proper conveyance of Flour, it shall be his duty to insert same in his certificate.

RULE 8. The Inspector shall, without extra charge, weigh at least one (1) barrel of each twenty-five (25) barrels inspected, and if found below the standard weight of one hundred and ninety-six (196) pounds net he shall not brand it unless repacked. He may repack Flour, and shall be entitled to twenty-five (25) cents per barrel for each barrel that he finds short in weight.

RULE 9. The standard weight of a barrel of Flour shall be one hundred and ninety-six (196) pounds net. When Flour is sold in sacks, and sacks included, the gross weight shall be considered as actual weight, and in collating the result any overweight shall be taken to offset an equal amount of light weight. † When Buckwheat Flour is sold in sacks, and sacks included, net weight shall be considered actual weight.

* As amended August 20, 1895.

† Went into operation November 1, 1889.

‡ Amendment adopted April 11, 1893.

RULE 10. Any defacing or changing of any Inspector's brand or marks placed by him on barrels or sample bags, by any person or persons, shall be reported by the Flour Inspection Committee to the Board of Directors; but the Inspector's brands on the barrels may be entirely removed, leaving the Flour to stand the same as if it had never been inspected.

RULE 11. Sales of Flour shall be for cash on delivery, unless otherwise agreed. If delivery is delayed for convenience of buyer, the terms shall be cash on presentation of the bill. If payment of bill is refused for supposed light weight or damage, or error in the account, no greater amount shall be withheld than the damage, loss or error claimed.

RULE 12. When Flour is sold by sample or grade guaranteed, it must be inspected at the place where sold (there being no agreement to the contrary), and if not equal to sample there is no sale. If taken without inspection from the place where sold, and proven not equal to sample or grade, the buyer shall restore it without charge to the place of purchase.

RULE 13. A rejection of Flour shall not be valid unless notice thereof in writing shall be given the seller within forty-eight hours after the delivery. In case of Flour at railroad depots, wharves, or general storage warehouse, delivery of the railroad notice or order on the railroad company or warehouse to the purchaser shall constitute a tender of delivery.

RULE 14. Flour shall not be considered in merchantable condition unless in good round-hooped barrels and head-lined, and all Flour sold and not head-lined may be head-lined by the buyer at the expense of the seller, at not to exceed two (2) cents per barrel.

RULE 15. All Flour sold at railroad depots, or river or canal landings, shall be at the risk of the buyer after six o'clock in the afternoon of the day following the day on which the order is given for the same.

RULE 16. Sales of Flour may be entered on the Sales Book of the Chamber, but all sales recorded must be "cash" sales, and if not "cash" sales the condition of sale must be expressed.

RULE 17. Sales can not be recorded unless grade is established by inspection, and if grade is not established by inspection they can be recorded as sold "by sample."

RULE 18. Sales recorded upon the Sales Book will be recognized as reflecting the daily market values, and in the event of no sales being recorded it shall be the duty of the Market Reporter to call upon the Quotation Committee, whose duty it will be to make the quotation upon that day.

RULE 19. The standards of grades of Flour shall be as follows: *Winter Wheat*—Patent, Fancy, Family, Extra. *Spring Wheat*—*Patent, Fancy, Family.

RULE 20. The Board of Directors shall, annually, after their election, in the month of October, appoint a Committee on Flour Inspection, consisting of five (5) competent members of the Cincinnati Chamber of Commerce who are known as members of the Flour trade. It shall be the duty of this committee to properly discharge the obligations imposed upon them, to consider and decide all disputes pertaining to matters of inspection arising between members dealing in Flour which may be submitted to them. A majority of the committee shall constitute a quorum, and a decision of a majority of those present shall be final and binding.

RULE 21. It shall be the duty of the Flour Inspection Committee to exercise general supervision over the inspection. They shall, each year, within two weeks after their appointment, establish standards of Flour for the following year, and secure and place in boxes in the Exchange Hall, for the use of the Inspector and dealers, and every three months renew fresh standards, but not with a view of changing the standards established.

† RULE GOVERNING SALES OF HOGS.

In sales of Live Hogs, dockage shall be allowed on the following basis: On animals weighing over two hundred (200) pounds—Stags, eighty (80) pounds; Piggy Sows, forty (40) pounds. On animals weighing two hundred (200) pounds and under—Stags, forty (40) pounds; Piggy Sows, twenty (20) pounds.

The dockage to be agreed upon by the buyer and seller; in case of any dispute, then a third party shall be called in to decide the proper dockage, and the party losing shall pay to the arbitrator one (1) dollar for each and every time he shall serve.

* Spring Patent created November 4, 1890.

† Adopted January 5, 1892.

RULES FOR THE GOVERNMENT OF THE PROVISION TRADE.

RULE 1. The Committee on Provision Inspection shall act as referees in all cases of complaints against Inspectors, or the inspection of any lot of Provisions, or any matters of business pertaining to the same; but the buyer shall, in all cases, have the right to designate his own Inspector; but in case the seller feels that injustice is being done, he shall have the right to call upon the Committee of Inspection, whose decision shall be final and binding. Any Inspector agreed upon by parties to a transaction, shall be regarded as a regularly authorized Inspector, subject to the rules of the Chamber, and the Committee on Provisions shall constitute the committee of reference.

RULE 2. All appeals from inspection must be made before the property leaves the city, packing point, or place of delivery.

RULE 3. Pork products packed between November 1st and March 1st shall alone be classed as "Standard."

RULE 4. In sales of fully cured Meats, or to be fully cured and delivered at a specified time, the seller must deliver in good faith according to contract, the Inspector to be the judge, who shall always be fully informed of the conditions of the contract before proceeding to inspect. Where sales of Dry Salted Meats are made without other specifications, it shall be considered that the sales contemplate Meats fully cured, the Inspector to be the judge.

RULE 5. In case of no specific agreement, the saltage allowed on Bulk Meats shall be one (1) per cent. from the 1st of November to the 1st of May; but should the buyer or seller object, the Inspector shall sweep as many drafts as he may consider necessary, and the percentage thus obtained shall be binding on both parties. But from the 1st of May to the 1st of November, the tare shall be ascertained by washing in cold water with a cloth, in case of no special agreement to the contrary. A drainage of one (1) per cent. shall be allowed on Pickled Hams and Shoulders.

RULE 6. To determine the tare on Lard, the package shall first be weighed gross, the Lard then removed, and the empty package subjected to dry heat and drained; after which the empty package shall be weighed, and its weight deducted from the gross weight. The difference thus obtained shall be considered the net weight of the Lard.

RULE 7. Three hundred and twenty pounds, net, shall be the average weight of a tierce of Lard upon which all settlements with contractors shall be based; but the number of packages the contract calls for must be delivered, and the difference, if any, settled at the market price on the day of delivery.

RULE 8. Four hundred to four hundred and fifty pounds, net, shall constitute a box of Cumberland Middles, and four hundred and seventy-five to five hundred and twenty-five pounds, net, shall constitute a box of all other English cuts of Middles, Shoulders and Hams, and all boxes containing over five hundred pounds of Meat to have a third strap around the box. All settlements of contracts shall be made on a basis of four hundred and twenty-five pounds per box, net, for Cumberland cut, and five hundred pounds per box, net, for all other English cuts of Meats.

RULE 9. If, on inspection of a fair sample of Bulk Meats, twenty (20) per cent., or over, is found to be sour, the buyer shall not be required to take the lot.

RULE 10. All the foregoing rules must be justly and liberally construed, and no property shall be rejected or condemned on a mere technicality.

RULE 11. The Committee on Provisions shall not have power of arbitration, but shall be empowered to consider all cases in reference to quality of Meats, cooperage, etc., and parties refusing to abide the decision of the committee, while acting in their line of duty, shall be liable to arraignment for unmercantile conduct.

***RULE 12.** In case of no specific agreement, contracts for 100 barrels of pork, 100 tierces of lard, 100 boxes dry salted meats, or for a larger amount, deliveries can be made on seller's option, or called for on buyer's option, in lots of not less than 100 packages, as named above, nor less than 100 packages of one brand.

Contracts for 50 hogsheads, or 50 half-hogsheads, of bacon or dry salted meats, or more, deliveries can be made on seller's option, or called for on buyer's option, in quantities of not less than 50 hogsheads or 50 half-hogsheads, and not less than this quantity of one brand.

Contracts for 100,000 pounds of bacon or dry salted meats, loose, or for a larger amount, deliveries can be made on seller's option, or called for on buyer's option, in quantities of not less than 100,000 pounds.

Contracts for 100 tierces of hams, or shoulders in pickle, smoked or canvased, or for a larger amount, deliveries can be made on seller's option, or called for on buyer's option, in lots of not less than 50 tierces, nor less than 50 tierces of one brand.

Payment to be made as lots are delivered.

RULE 13. It shall be the duty of the Inspector of Provisions to weigh stuff when called upon, receiving therefor a fee of five (5) cents per each one thousand (1,000) pounds, in addition to the inspection fee—the party ordering the weighing to be responsible for the fee.

RULE 14. The Inspector shall keep a record, in detail, of every examination he may make, that he may be qualified to testify positively in event of a dispute.

RULE 15. For the examination of provisions sold as "Regular," it shall be the duty of the Inspector (or his deputed assistants), on receiving notice, to go to any packing house or warehouse in the city to examine provisions in such quantities as may be required, selecting the same in such manner, from the lots specified, as in his judgment will give a fair sample of the whole.

RULE 16. If upon examination it is found in all respects up to the requirements, according to the classification or grades adopted by the Chamber of Commerce, he shall issue certificates to that effect.

When necessary to remove property for the convenience of examination, it shall be the duty of the Inspector to send for the same, that a fair sample may be obtained.

In no case should a certificate be granted on samples delivered by the seller.

RULE 17. The Inspector shall be entitled to receive as compensation for examining Provisions, as follows: For Beef and Pork, in barrels, five dollars for the first five barrels, the Inspector furnishing labor and other requirements, and seeing that the property is properly repacked and rebrined, and fifty cents for each additional barrel examined—payable by the buyer if regular, and by the seller if rejected, and cartage when removed; and for Bulk, Bacon or Boxed Meats, fifteen cents per one thousand pounds, payable by the buyer. For inspecting Lard, five cents per package, payable by the buyer if accepted, or by the seller if rejected; and for stripping Lard, one dollar per package, to be paid by the buyer. Five barrels of Pork or five tierces of Lard to be sufficient to sample any lot sold, unless otherwise agreed between buyer and seller.

RULE 18. It shall be the duty of the Inspector, when requested by the owner, either at any packing house, warehouse, or in yards provided by the Inspector, to overhaul and inspect Provisions according to the qualifications and classifications authorized; two hundred pounds of meat, with abundance of good salt, to be repacked in each barrel, and cooperage to be put in good order. Each barrel of Provisions that is sound, sweet, and free from any and every defect, to have grade and date of inspection branded thereon, and the word "Repacked," as hereinafter specified; and any portion that is defective, to be branded in like manner "Rusty," "Sour," or "Tainted," as the case may be; the said brand to be placed, with the Inspector's brand, across the regular packer's brand, such Pork, according to the grade or quality, to be classed as "Repacked, 200 pounds."

RULE 19. The Inspector shall use metallic letters and figures or marking iron for his dates and classes of inspection.

*As amended September 27, 1875.

RULE 20. It shall also be the duty of the Inspector to put his metallic brand or marking iron on samples of Provisions in packages that he inspects; and he shall pass no Pork products as "Regular" unless the real packer's name of the product contained therein is branded, according to these rules, on the head of each package.

RULE 21. In all cases of sales of Provisions as "Regular," the Inspector shall examine and inspect when called on; and if the property be up to the requirements, he shall issue a certificate simply for so many barrels or packages of product (naming it), for so many pieces or pounds of meat (naming the kinds).

RULE 22. Should the Inspector be called on to inspect Pickled Meats, and upon examination he should be of the opinion that the number of pounds required by these rules had not been packed, he shall not pass it as "Regular," but shall refer it at once to the Inspection Committee, who shall investigate, and if a satisfactory explanation can be given or arrived at, they shall instruct the Inspector to proceed and inspect and pass it; but if not satisfactory to the Committee, they shall, in their judgment, make the fact known to the Provision Trade in any way they may think proper.

RULE 23. All "Hog Products," to be "Regular," must be from corn-fed slaughtered hogs, not frozen before cutting, and shall average not less than fourteen pounds for Shoulders, or thirty pounds for Sides, and must run at least eighty per cent. sweet.

No hogs shall be killed on the same day on which they arrive at the pens of the slaughter-house

RULE 24. Where Meat is in store, it shall be weighed and inspected in store; where Meat arrives by river, rail or canal, it shall be inspected and weighed at house of buyer.

RULE 25. All Bacon, uncanned, and Bulk Meats packed between March 1st and November 1st, shall be in fly-tight cooperage.

RULE 26. In all sales of Provisions for future delivery, either party may call for a margin, at any time, unless it is expressly understood between the parties, at the time the contract is entered into, that such call can not be made. In the absence of a special contract, either party shall be entitled to a margin equal to ten (10) per cent. of the market value of the article contracted to be delivered, the same to be kept good. Twenty-four (24) hours' notice in writing to residents, and forty-eight (48) hours' notice in writing or by telegraph to non-residents, shall be given on a call for a margin, and where a party fails to respond to such call within the said time, the property may be sold at public auction, on the floor of the Merchants' Exchange, during 'Change hours, on the following day, "for account of whom it may concern."

***RULE 27.** In settlement of contracts (unless otherwise specified) the following weights shall govern:

Dry Salted Meats or Bacon—

Packed in hogsheads, Shoulders,	-	-	-	-	-	1,000 pounds.
" " Rib Sides,	-	-	-	-	-	900 "
" " Clear Rib Sides,	-	-	-	-	-	950 "
" " Clear Sides,	-	-	-	-	-	1,000 "
Packed in half hds., Shoulders,	-	-	-	-	-	550 "
" " Rib Sides,	-	-	-	-	-	500 "
" " Clear Rib Sides,	-	-	-	-	-	550 "
" " Clear Sides,	-	-	-	-	-	575 "
Hams or Shoulders, smoked and canned, packed in tierces,						340 "
" " in pickle, packed in tierces (green weight),						300 "

RULE 28. All barreled Provisions offered for sale as "Regular" in this market must be cut, selected and packed, in all respects, as to quality and condition, equal to the classification of inspection as adopted by the Chamber of Commerce.

*As amended September 27, 1875.

RULE 29. Unless otherwise stipulated, in all sales made of any of the grades of Provisions represented as "Regular," the seller shall be bound to fulfill his sale by the delivery of the quality called for by such sale, and which, on examination by the Inspector, has been certified by him to have been packed according to the classification, and is, at the time of delivery, in good merchantable condition in every respect.

Provisions from which any surplus gain has been removed, can not be classed as "Regular."

RULE 30. All Provisions sold in this market, in the absence of special agreement, shall be deemed "Regular," and the property must comply with the requirements of the Rules of Inspection of the Board. All Provisions sent to this market for sale, which are, in all respects, in conformity with these rules, shall be classed as "Regular."

RULE 31. No original weight shall be taken out of any package of Provisions, without removing the original packer's brand *entirely* from the head of the package, and the brand "Repacked" burned in the head distinctly.

RULE 32. In all cases, Product should be sold "Regular," but, in case a particular brand is sold, and, upon examination, the Product will not inspect "Regular," the buyer shall elect to take another brand, or the difference in value of the special brand shall be settled between the buyer and seller.

*RULE 33. On sales of Provisions for future delivery, on buyer's option, if the buyer call before the expiration of the month of contract, the seller, if he so elect, shall in case of barreled meats and lard in tierces, have two working days' notice, and for boxed meats, pickled or smoked hams, and shoulders in tierces, or dry salted meats, four working days to prepare property for delivery; and when, at the option of seller, the seller tenders before the expiration of the month of contract, the buyer, if he so elect, shall have the same time to prepare for receiving the same.

RULE 34. Buyers of Provisions on time contracts shall have the right to inspect before the day of delivery, provided they send an Inspector in time to allow the inspection to be completed before the expiration of the contract; but, failing to do so, the seller shall have the privilege of having the property inspected, the cost to be paid by the buyer.

†RULE 35. Where the buyer of Provisions fails to avail himself of the privilege of inspection, in the absence of any special agreement upon the part of the seller to guarantee his product, the liability of the seller shall, as to quality, saltage and weights, cease when the product shall have left his house.

‡RULES FOR THE REGULATION OF THE PROVISION CALL BOARD.

RULE 1. There shall be one public call each business day, at 1 o'clock P. M., in the Pork-room, on mess pork, lard, bulk clear rib sides, and bulk shoulders, to be conducted by a person selected by the majority of the members present at the first meeting, or by any other person selected by those present, when such change becomes necessary. The months shall be called in their order, commencing with the current month and continuing through the four months immediately succeeding. No offer to buy or sell shall be entertained at a less difference than $2\frac{1}{4}$ cents per hundred pounds on lard or meats, and $2\frac{1}{4}$ cents per barrel on pork. The first offer to buy or sell at a price shall be accepted before subsequent offers at the same figures may be placed.

Subsequent offers to sell at a lower or buy at a higher price, shall vacate prior offers to sell at higher or buy at lower prices. A transaction shall vacate all previous bids and offers.

All disputes as to offers, bids, acceptances, or withdrawals (whether in time or not), shall be decided on the spot by the Caller, subject to an appeal to the members present. The appeal must be promptly taken, and a majority of the members present and voting shall settle the disputed point finally.

No dealings, nor bids at the call, shall be for a smaller quantity than 250 bbls. of pork, 250 tierces of lard, 50,000 lbs. of bulk meats, for future delivery, nor for less than car-load lots of all of

* Adopted February 8, 1877.

† Adopted September 27, 1875.

‡ Adopted February 8, 1877.

the above for cash, or seller the month. All deliveries of property tendered under contracts must be accompanied by evidence of actual property (warehouse receipts or bills of lading, and certificates of inspection), and all property delivered must be regular under the rules of this Chamber. If buyers do not send inspectors upon notice of delivery, by the time notified, the seller shall have the property inspected at the cost of the buyer.

RULE 2. Either party to a contract, during the life of such contract, shall have the right, First—To call an original margin of two dollars per tierce on lard, one dollar per barrel on pork, and fifty cents per hundred pounds on bulk meats, both parties depositing like amounts; and, Second—Either party may call additional margins to meet variations in the market, of not less than one-quarter of a cent per pound on lard and bulk meats, and fifty cents per barrel on pork. The party in whose favor the market is, shall not be required to deposit such margin. All margins on contracts shall be deposited with the National Bank of Commerce of Cincinnati.

When margins are called before 1 P. M., they must be deposited before 3 P. M. the same day, and if called after 1 P. M., must be deposited by 12 M. of the next day. When margins are called, original or for variations in the market, certified checks must be drawn to the order of the bank in which they are to be deposited. Checks must be sent to such bank, who shall give certificate of deposit in duplicate, made payable to the joint order of the buyer and seller. In case the two parties do not agree as to the amount due on a margin receipt, either of them may refer the matter to the Provision Committee for decision, which shall be final. On the decision of said committee, they shall promptly indorse to each party the amount each shall be entitled to by such decision, and the bank shall pay in accordance with such indorsement.

RULE 3. Contracts shall not be transferable, and any difference found to be due on settlement, shall apply on account between the parties to the contract. Any party holding a contract against another, corresponding in all respects (excepting as to price) with one held by the other party against him, may close or cancel both, by giving notice to said party, and when it appears that several parties have contracts between each other, corresponding in all respects (except as to price), and that a ring settlement can be made, the party finding said ring shall notify all parties thereto, giving names, time of delivery, quantity and settlement price, and get their acknowledgment, from which time the said ring shall be in force, and can not be broken by the failure of any of the parties therein. And all parties thereto shall be compelled to settle their differences on said contract with each other, on the basis of the settlement price.

RULE 4. All notices for delivery of property sold on contract must be given to the first receiver before 12 M., and the last receiver before 4 P. M. of the same day, and on the day preceding the day of deliveries (Sundays and legal holidays excepted). In case of disputes arising under any contract which are not provided for under the rules, the parties thereto shall promptly agree to the appointment of two arbitrators, and these shall appoint a third, whose decision shall be final.

RULE 5. The buyer must pay for property (sold under contract) in cash, upon the presentation of bill (after notice of delivery), when accompanied by proper certificate of property and Inspector's certificate.

FORM OF BILL FOR PORK.

A. B.

CINCINNATI, February 1, 1877.

Bought of C. D.

250 bbls. Mess Pork. @ \$17 00,	\$4,250 00
Inspector's charges,	5 00
As per contract,	\$4,255 00

FORM OF CERTIFICATE OF PROPERTY TO BE ATTACHED TO BILL.

CINCINNATI, February 1, 1877.

"I hold in store, subject to the order of A. B., 250 bbls. of Mess Pork, deliverable upon the return of this receipt and payment of charges for storage, 8c. per barrel for the first month, and 6c. per barrel for each additional month. Not insured. This property free of storage for five days."

"C. D."

Or, such like certificate that shall contain the words thereon: "This property free of charges for five days."

Buyers for cash or car-loads, desiring property delivered "F. O. B.," must so state in their bids "F. O. B." deliveries shall mean at "storage houses situated on lines of railroads, at railroad depots, or steamboats."

RULE 6. Fictitious sales are positively forbidden, and parties concerned shall be suspended or expelled from the Chamber of Commerce.

RULE 7. All the above rules, so far as practicable, with the exception of so much of Rule 3 as pertains to ring settlements (which shall be applicable to such ring settlements alone), shall apply to transactions in Provisions generally, and all rules of the Chamber conflicting therewith are hereby repealed.

RULES FOR THE CUT AND MANUFACTURE OF THE HOG PRODUCT.

BARRELED PORK.

MESS PORK.

Mess Pork shall be cut and packed from Sides of well-fatted Hogs, in strips; the Hog to be first split through the backbone, or, if split on one side, then an equal proportion of hard and soft sides, as they are termed, must be packed, properly flanked, and not back-strapped. One hundred and ninety pounds of green meat, numbering not over sixteen pieces, including the regular proportion of flank and shoulder cuts, four layers placed on edge, without excessive crowding or bruising, must be packed into each barrel, with not less than thirty-five pounds of good foreign, or forty pounds of good domestic, coarse salt, and filled up with good, clear brine, as strong as salt will make it. The pork to be cut reasonably uniform in width. The packer's name and location, the date of packing, and the number of pieces and pounds of green meat in each barrel must be branded on the head with a metallic brand, marking-iron or stencil brand, at the time of packing.

PRIME MESS PORK.

Prime Mess Pork shall be made of the Shoulders and Sides of nice, smooth, fat Hogs, weighing from 100 to 160 pounds, net, regularly cut into square pieces, as near four pounds each as possible, the shank to be cut off close to the breast. Each barrel to contain one hundred and ninety pounds of green meat, in the proportion of twenty pieces of shoulder and thirty pieces of side cuts, and to be packed with twenty pounds of good, coarse salt, with the addition of eight ounces of saltpeter. The Prime pieces should be cut clear of the blade-bone. The shoulder pieces not to exceed eighty-five pounds in each barrel.

EXTRA PRIME PORK.

Extra Prime Pork shall be made from heavy, untrimmed Shoulders, cut into three pieces, the leg to be cut off close to the breast, to be packed one hundred and ninety pounds of green meat into each barrel, with the same quantity and quality of salt as Mess Pork.

LIGHT MESS PORK.

Light Mess Pork shall be made from the Sides of reasonably well-fatted Hogs, and in all other respects to be cut, selected, and packed the same as Mess Pork, except that as many as twenty-two pieces may be put into each barrel.

FAMILY MESS PORK.

Family Mess Pork shall be made from Backs of Hogs, after bellies have been taken off, cut into pieces about six pounds each, and in all other respects to be selected and packed in the same manner as Mess Pork.

EXTRA SHOULDER PORK.

Extra Shoulder Pork shall be made from heavy, trimmed Shoulders, cut into three pieces; the leg to be cut off close to the breast, and in all other respects selected and packed in the same manner as Extra Prime Pork.

EXTRA CLEAR PORK.

Extra Clear Pork shall be made from the Sides of extra heavy, well-fatted Hogs, the back-bone and ribs to be taken out, the number of pieces in each barrel not to exceed fourteen, and in all other respects to be cut, selected, and packed in the same manner as Mess Pork.

CLEAR PORK.

Clear Pork shall be made from the Sides of extra heavy, well-fatted Hogs, the back-bone and half the rib next to the back-bone to be taken out, the number of pieces in each barrel not to exceed fourteen, and in all other respects to be cut, selected, and packed in the same manner as Mess Pork.

CLEAR FAMILY MESS PORK.

Clear Family Mess Pork shall be made from the Backs of heavy, well-fatted Hogs, after bellies have been taken off and back-bone and ribs taken out, cut into pieces of about six pounds each, and in all other respects to be packed in the same manner as Mess Pork.

RUMPS.

Rumps shall be trimmed with only enough taken off to make them neat and smooth, the tails cut off close, each barrel to contain one hundred and ninety pounds of green meat, packed in the same quantity and quality of salt as Mess Pork, and the number of pieces to be similarly branded on each barrel at the time of packing.

PICKLED MEATS.

STANDARD SWEET PICKLED HAMS.

Standard Sweet Pickled Hams shall be cut short, and well rounded at the butt, properly faced, shank cut just in or above the hock-joint, to be reasonably uniform in size and average. Three hundred pounds, block weight, shall be placed in each tierce.

STANDARD SWEET PICKLED SHOULDERS.

Standard Sweet Pickled Shoulders shall be well cut and trimmed, shank cut in or above the knee-joint, to be reasonably uniform in size. Three hundred pounds, block weight, shall be packed in each tierce.

NEW YORK SHOULDERS.

New York Shoulders shall be made from small, smooth Hogs, shank cut off one inch above knee-joint, trimmed close and smooth, reasonably uniform in size, and to average, in lots, not to exceed fourteen pounds. Three hundred pounds, block weight, shall be packed in each tierce.

SWEET PICKLED BELLIES.

Sweet Pickled Bellies shall be made from nice, smooth Hogs, well cut and trimmed, to average, in lots, not to exceed fourteen pounds. Three hundred pounds, block weight, shall be packed in each tierce.

BRANDING.

The packer's name, location, number of pieces and date of packing shall be branded on the head of each package of Pickled Meats at the time of packing.

UNIFORMITY OF PICKLED MEATS.

All Pickled Meats shall be sized when packed—the light, medium and heavy separately, as near as practicable.

CUT MEATS

HAMS.

Hams shall be short, well rounded at the butt, properly faced, cut just in or above the hock-joint.

SHOULDERS.

Shoulders shall be cut at right angles to the side, and as close as possible to the back part of the fore arm-joint, butted off square on top, neck-bone and short ribs taken out, blood-vein lifted and cut out, breast-flap to be trimmed off, and foot to be cut off in or above the knee-joint.

BLADED SHOULDERS.

Bladed Shoulders shall be cut the same as "Standard" Shoulders, excepting the shoulder-blade to be taken out and the corners rounded.

ROUGH SIDES.

Rough Sides shall be made by splitting the Hog through on one side of the back-bone, and an equal proportion of both Sides must be delivered on sales, to make them "Standard."

SHORT CLEAR SIDES.

To make Short Clear Sides, the back-bone, breast-bone, and ribs shall all be taken out, and hench-bone sawed down smooth and even with the face of the Side, feather of blade-bone not to be taken out, edges to be left smooth, Sides not to be back-strapped or flanked.

SHORT RIB SIDES.

To make Short Rib Sides, the back-bone should be taken out, hench-bone and breast-bone sawed or cut down smooth and even with the face of the Side, feather of blade-bone not to be taken out, and side not to be back-strapped or flanked.

LONG CLEAR SIDES.

To make Long Clear Sides, the back-bone, shoulder-bones, ribs, and breast-bone must be taken out, leg cut off close to the brisket, hench-bone sawed down smooth and even with the face of the Side, and the Sides not to be back-strapped or flanked.

CUMBERLAND SIDES.

To make Cumberland Sides, the Side and Shoulder should be left together in one piece; foot cut off in or above knee-joint; shoulder ribs, neck-bone, and back-bone taken out; blood-vein lifted and cut out; hench-bone and breast-bone sawed or cut down smooth and even with the face of the Side, and Sides not to be back-strapped or flanked. Ribs must not be scribed.

LONG RIB SIDES.

Long Rib Sides to be made same as Cumberlands, except that the shoulder-bones must be taken out, and leg cut off close to the brisket.

STRET福德 SIDES.

Stretford Sides shall be made from Hogs weighing about 140 to 160 pounds, net; back-bone and half the ribs taken out, blade-bone taken out, knuckle left in, and leg cut off close to the breast.

BIRMINGHAM SIDES.

Birmingham Sides shall be made from Hogs weighing about 170 pounds, net; back-bone, ribs, and blade-bone taken out, pocket-piece cut out, and pocket nicely rounded. knuckle-bone left in, and leg cut off close to the breast.

SOUTH STAFFORDSHIRE SIDES.

South Staffordshire Sides shall be made the same as Birmingham, except loin taken out full to top of shoulder-blade, leaving only a thin strip of lean along the back; knuckle left in, and leg cut off close to the breast.

YORKSHIRE SIDES.

Yorkshire Sides shall be made the same as Cumberlands, with the ribs out, the leg cut off about two inches above the knee.

IRISH CUT SIDES.

Irish Cut Sides shall be made the same as Long Clear, except top of the pocket cut off, knuckle-bone left in.

LONG HAMS.

Long Hams shall be cut from the Side by separating with a knife the hip-bone from the rump, properly rounded out, foot unjointed at first joint below the hock-joint.

SOUTH STAFFORDSHIRE HAMS.

South Staffordshire Hams shall be cut short, hip-bone taken out at the socket-joint, hock unjointed at first joint below the hock-joint.

UNIFORMITY OF BOXED MEATS.

In packing Meats in boxes, the pieces shall be classified—the light, medium and heavy separately, as nearly as practicable, in packages made to suit the different sizes.

L A R D.

CHOICE LARD.

Choice Lard to be made from leaf and trimmings only, either by steam or kettle-rendered, the manner of rendering to be branded on each tierce.

PRIME STEAM LARD.

Prime Steam Lard shall be standard, made from head, gut fat, leaf and trimmings, in the proportion in which the same come from the Hog.

***CURRENT MAKE LARD.**

Current Make Lard shall be standard, made from head, gut fat, leaf and trimmings, in the proportion in which the same come from the Hog; white and sweet; steam rendered.

* Adopted August 6, 1875.

RULES FOR THE REGULATION OF THE TRADE IN COOPERAGE.

RULE 1. The Board of Officers (Directors) shall annually appoint a competent Inspector of Cooperage, who shall inspect all such Cooperage as he may be called upon to examine, according to these rules, determining with a wind-bellows the tightness of packages to hold liquids, lard or pickled meats.

RULE 2. The certificate of such inspector shall be binding in the settlement of any differences, as to quality, that may arise between the buyer and seller; but, in the event of either party feeling dissatisfied with such inspection, an appeal may be made to the Committee on Provision or Whisky Inspection, as the article inspected may properly belong to one or the other, and the decision of such committee shall be final.

RULE 3. The fees to be allowed the Inspector shall be as follows:

For seventy-five (75) or a less number of barrels, half barrels, kegs or tierces.....	\$1 00
For lots exceeding seventy-five (75) packages of the same, per package.....	1½c.
For hogsheads, half hogsheads, or boxes, per package.....	3c.

RULE 4. The fees shall in all cases be paid by the party employing the Inspector.

PACKAGES.

Cooperage shall be made of well-seasoned white oak, free from objectionable sap.

PORK BARRELS.

For Pork Barrels, staves shall be five-eighths ($\frac{5}{8}$) of an inch thick, thirty (30) inches long; heads made in an eighteen (18) inch tress, one (1) inch thick in center and three-eighths ($\frac{3}{8}$) of an inch at bevel; hoops of hickory, not more than ten on an end: barrel to be hooped not less than eleven-sixteenths (11-16).

TIERCES.

Tierces for Hams, Shoulders or Lard shall be thirty-two (32) to thirty-three (33) inches long, heads made in twenty-one (21) inch tress-hoops and same thickness as for barrels; staves may or may not be chamfered at the head, as may be agreed upon by the buyer and seller; shall be three-quarters ($\frac{3}{4}$) of an inch thick—quality of staves and hoops to be same as for barrels. Tierces to be hooped eleven sixteenths (11-16,) and to have not more than ten hoops to an end. Iron-bound Tierces, for Pickled Hams and Shoulders, shall be classed as "Standard" if made in compliance with the requirements of this rule as to heading and staves, and hooped with not less than three (3) good hoops on each end; the chime hoops to be 1½ inches in width, the quarter and bilge hoops to be 1½ inches in width, and to weigh, per set, not less than ten (10) pounds to the tierce.

LARD KEGS.

Lard Kegs shall be made of same quality of timber as Pork Barrels and Lard Tierces; staves to be 16½ inches long and $\frac{5}{8}$ of one inch thick, to be made in 11½-inch tress-hoops; hoops to be hickory, and the packages to be fully two-thirds hooped.

HALF BARRELS.

Half Barrels for Pork, Beef and Lard shall be made of same quality of timber as Barrels and Lard Tierces; staves to be 24 inches long and $\frac{5}{8}$ to $\frac{3}{4}$ of an inch thick, and the packages to be made in 15-inch tress-hoops; all hoops to be hickory, and packages to be fully two-thirds hooped.

BEEF TIERCES.

Beef Tierces shall be made the same as Lard Tierces, but to be entirely free from sap, and the second hoop from each end to be $1\frac{1}{4}$ -inch iron, oiled or painted.

SLACK HAM TIERCES.

Slack Ham Tierces shall be made in 22-inch tress-hoops; staves to be 33 inches long, good hickory hoops. 3 hoops at the end and 3 at the bilge.

SLACK AND FLY-TIGHT HOGSHEADS.

Slack and Fly-Tight Hogsheads shall be made in 32-inch tress-hoops; good hickory hoops; staves to be 42 inches long. Slack Hogsheads to be hooped with 12 hoops and quarter bound; middle head-piece to be pine or oak. Fly-Tight Hogsheads to be same as slack, but to be hooped with 16 hoops instead of 12.

HALF HOGSHEADS.

Half Hogsheads shall be made in 28-inch tress-hoops; staves to be 34 inches long; good hickory hoops; packages to be quarter bound (12 hoops); middle head-piece to be of pine or oak.

WHISKY BARRELS.

Whisky Barrels shall be made of sound, well-seasoned white oak timber, clear of sap, to be made in $20\frac{1}{4}$ -inch tress hoops; staves to be thirty-three (33) inches long and $\frac{3}{4}$ of one inch thick, hooped with 6 iron hoops, $1\frac{1}{4}$ -inch hoops at the head and $1\frac{1}{4}$ -inch at the bilge and quarter—said hoops to weigh in all eight pounds; barrels to be bored and bunged.

WHISKY HALF BARRELS.

Whisky Half Barrels shall be made of same quality of timber as Barrels—to be made in $16\frac{1}{4}$ -inch tress-hoops; staves to be 28 inches long and $\frac{3}{4}$ of one inch thick; six iron hoops, $1\frac{1}{4}$ -inch hoops at the heads and $1\frac{1}{4}$ -inch at the bilge and quarter.

KEGS.

Kegs shall be made of same quality of timber as Barrels and Half Barrels.

Ten Gallon Kegs—to be made in $12\frac{1}{4}$ -inch tress-hoops; 6 iron hoops, head hoops $1\frac{1}{2}$ inches wide, bilge and quarter 1 inch wide; staves $21\frac{1}{4}$ inches long.

Six Gallon Kegs—to be made in $10\frac{1}{4}$ -inch tress-hoops; 6 iron hoops, same size hoops as ten gallon packages; staves 18 inches long.

Five Gallon Kegs—to be made in $10\frac{1}{4}$ -inch tress-hoops; staves to be $16\frac{1}{4}$ inches long; 6 iron hoops, head hoops 1 inch wide, bilge and quarter $\frac{1}{2}$ inch wide.

Four Gallon Kegs—to be made in $9\frac{1}{4}$ -inch tress-hoops; staves $15\frac{1}{4}$ inches long; 6 iron hoops, head hoop 1 inch wide, bilge and quarter $\frac{1}{2}$ inch wide.

BOXES.

Boxes should be made of sound common boards, reasonably dry, one (1) inch thick, dressed on one side, not over two (2) strips at each end, and three (3) strips to each side, bottom or top: to have good, strong, hard wood, white wood or sap pine stays inside each corner; shall be well nailed and strapped with birch, oak or hickory straps around each end, to lap three (3) inches on the cover. All boxes to contain five hundred (500) pounds, net, shall have three straps. Boxes shall be nailed together with ten-penny nails, and the stays nailed in with eight-penny nails.

***RULES FOR THE GOVERNMENT OF THE TRADE IN HOPS.**

RULE 1. It shall be the rule that a bale of Hops shall weigh not less than one hundred and seventy-five (175) or more than two hundred (200) pounds; but the tender or delivery of any lot of Hops, on a sale or contract, averaging one hundred and eighty-five (185) to one hundred and ninety (190) pounds, shall be deemed a compliance with this rule.

RULE 2. The sacking of Hops shall not weigh more than twenty-four (24) ounces per yard, and seven (7) pounds shall be deducted from the weight of each bale as tare; and any additional weight of sacking or any extraneous matter shall be considered as irregular, and the seller be liable to the purchaser for such excess.

RULE 3. Each and every bale of Hops sold by the grower, either to a dealer or consumer, must be marked with his (the grower's) name or initials, and the name of the State where the Hops have been raised, and the year produced.

RULES GOVERNING REPORTS OF SALES.

RULE 1. "Time Sales" may be entered on the daily Sales Book of the Chamber, with this condition specified.

RULE 2. Sales entered without conditions, will be understood to mean cash sales.

RULE 3. Sales in settlement of contracts, without the *bona fide* transfer of property, must not be entered as cash sales, but as "sales in settlement."

RULE 4. Sales consummated on refusals given the day before, may be entered with the conditions expressed.

† RULE 5. Sales made up to one o'clock only, may be reported as late as ten minutes past one o'clock.‡ Sales made after one o'clock may be reported the next day and entered as sales made "last evening."

§ RULE 6. All challenges of sales entered on the Sales Book must be made on the day of entry.

‡ RULE 7. Sales made on 'Change of goods deliverable at other points, may be entered on the Sales Book, said delivery to be mentioned in the entry.

|| RULE 8. Sales made on the Call-Board shall be entered on the Sales Book, the fact of the sales having been made on the call to be specified, and the entry to be made on the current day.

¶ RULE 9. All challenges of sales entered on the "Sales Book" shall be heard and determined by the appropriate standing Committees on Inspection.

* Adopted May 10, 1883.

† As amended November 2 and November 12, 1874.

‡ The time for reporting sales of grain was extended to 1:30 P. M., August 1, 1882.

§ Adopted December 15, 1874.

|| Adopted May 3, 1881.

¶ Adopted June 10, 1884.

*RULES FOR THE CLASSIFICATION AND INSPECTION OF LUMBER.

WHITE PINE LUMBER.

FIRST AND SECOND CLEAR.—Shall be not less than ten inches wide, and perfect up to eleven inches in width; will then allow imperfections equal to bright sap one inch on one side of the whole length of the piece, if well manufactured; as width increases, will allow other or larger imperfections in knots or sap in proportion to the width, but not imperfections enough to decrease the value below the above described piece.

THIRD CLEAR.—Shall be not less than nine inches in width, and perfect up to ten inches; wider than ten inches, imperfections equal to bright sap two inches on one side of the whole piece, or two knots aggregating the size of a half dollar, will be allowed as to the general location and effect upon the use of the board.

SELECTS.—Take a piece twelve inches wide and twelve feet long as a basis; this width will admit of not to exceed three defects; if free from sap, may allow three knots aggregating the size of a silver dollar, or their equivalent, on one side; if free from knots, it may allow two saps equal to two inches on each side; if bright, pieces under nine inches wide must be perfect on one side; over twelve inches wide, defects may be allowed in proportion to width.

FIRST COMMON.—If narrow, one side may be well covered with bright sap running through one to one and one-half inches on each edge, no knots on face; such a piece may be from seven to ten inches wide; at ten to fourteen inches, some knots and less sap; this class makes good one-side lumber for finishing; and, in general, knots may be allowed of a character not to injure the piece for finishing purposes or for cutting up; a piece seven inches wide, for example, may have bright sap covering one side and running through on face one to one and one-half inches and no knots; a piece eleven to twelve inches wide may have four inches of heart on the sap side, the sap coming through to the face, and there may be two or three small knots on the face; pieces wider than twelve inches will be allowed imperfections proportionate to width.

SECOND COMMON.—This is a grade which, if not sap-stained, would go into First Common, and will admit of any amount of bright sap, together with round knots aggregating not over one and one-half inches in pieces fourteen inches or over wide, and shall be free from rot and shake.

SHOP.—This is a grade of lumber for cutting up for shop work; it may have large, loose, rotten knots, shake, and sap, and shall cut up at least sixty-six and two-thirds per cent. clear of knots and shake.

THIRD COMMON.—Shall be a coarser board or piece than Second Common, but the knots, while they may be larger, must be tight; this grade will admit of some shake at one end of the piece, also straight splits not to exceed one-fifth of the length of the piece.

FOURTH COMMON.—May have large, coarse, unsound knots, and shake.

BOXING.—This grade includes all boards with loose knots, red streaks, and bad shake.

STRIPS.

CLEAR.—1x4 and 1x6 shall be free from sap and all other defects, perfect in thickness and width.

† No. 1.—May have two or three small, sound knots, or bright sap one-half to three-fourths inch in width on one side of strip.

No. 2.—Will admit of any amount of bright sap, and not over three small, sound knots, each to be not larger than one inch in diameter, and be free from rot and shake.

No. 3.—Is a sound strip, and will admit of small, tight knots; must be free from rot, shake, hearts, and splits.

No. 4.—Is a coarse knotted strip, but the knots, while they may be large, must be tight; may contain some shake.

* Adopted by the Board of Directors February 12, 1889. † Amended August 22, 1889.

FLOORING, CEILING, AND PARTITION.

CLEAR.—1x4 and 1x6 shall be free from sap and all other defects, perfect in thickness and width.

*No. 1.—May have two or three small, sound knots, or bright sap one-half to three-fourths inch in width on one side.

No. 2.—Will admit of any amount of bright sap, and not over three small, sound knots, each to be not larger than one inch in diameter, and be free from rot or shake.

No. 3.—Will admit of small, tight knots, and must be free from rot, shake, hearts, and splits.

No. 4.—May be coarser than No. 3, but the knots, while they may be large, must be tight; may contain some shake.

No. 5.—May have large, coarse, or unsound knots, red streaks, and bad shake.

SIDING.

CLEAR.—Must be free from all defects.

No. 1.—May allow two inches of bright sap one-half the length of the piece, or its equivalent; or if free from sap, may allow one or two small knots, each not to exceed one-half inch in diameter, if sound.

No. 2.—May allow on the face of the board bright sap, or three knots, if sound, each not more than one-half inch in diameter in a twelve-foot piece, and more in longer lengths; but a piece having both knots and sap must have less of each defect.

No. 3.—Must be sound, and will admit of sap and small, tight knots, and be free from rot, shake, hearts, and splits.

YELLOW PINE.

FLOORING, CEILING, AND PARTITION.

FIRST AND SECOND CLEAR.—Shall be free from knots, and may contain some bright sap.

FIRST STANDARD.—Will admit of bright sap, and not more than one small knot in a twelve-foot piece.

SECOND STANDARD.—Will admit of bright sap, and not over three small knots in a twelve-foot piece.

COMMON.—All stained sap and large knotted pieces shall go into this grade.

POPLAR LUMBER.

In Poplar Lumber inspection, the Inspector is instructed to use his best judgment, based upon the general rules laid down for his guidance. He must inspect all boards and plank on the poorest side. The standard knot is to be considered as not exceeding one and one-fourth inches in diameter, and of a sound character. Splits are always a greater or less damage to Poplar Lumber, and will reduce a piece to one grade lower if the split is over twelve inches in length in boards and plank, or six inches in strips; but splits must be straight, and in one end only, to be allowed. All lumber must be sawed so that it will be of the standard thicknesses when seasoned. All lumber must be sawed square-edged, unless otherwise ordered; and boards and plank having bark and wane must be reduced one grade, and measured inside the wane or bark. All boards one inch thick and under shall be measured face measure. If sawed scant, must be placed in next thickness below. All badly mis-sawed lumber shall be classed as Culls. No cull is considered as having a market value which will not work one-half its size without waste. The lumber sawed for specific purposes must be inspected with a view to the adaptability of the piece for the intended use, as in many cases it can not be utilized for other purposes. In the inspection of the combined grades of Firsts and Seconds, sixty per cent. shall be Firsts, and may contain forty per cent. of Seconds. Standard lengths are always recognized as being twelve, fourteen, and sixteen feet; but ten per cent. of ten-foot lengths may be allowed. Shorter than ten feet does not come within the range of marketable, although sometimes admitted. Squares: the sizes shall be 4x4, 5x5, 6x6, 7x7, 8x8, 9x9, and 10x10. Worm-holes are to be considered as one of the most serious defects in Poplar Lumber.

* Amended August 22, 1899.

FIRST POPLAR LUMBER.—One inch to two inches in thickness shall be eight inches and upwards wide and absolutely clear up to ten inches in width.

At eleven inches, one inch of bright sap will be allowed.

At twelve, thirteen, fourteen, and fifteen inches wide, two inches of bright sap will be allowed, or one standard knot.

At sixteen inches and over in width, three inches of bright sap on one edge will be allowed, or two standard knots.

SECOND POPLAR LUMBER.—One inch to two inches in thickness shall be eight inches and upwards in width; and at eight and nine inches wide will admit of one inch of bright sap, but no other defects.

At ten, eleven, and twelve inches wide, will admit of two inches of bright sap, or one standard knot.

At thirteen, fourteen, and fifteen inches wide, will admit of three inches of bright sap and one standard knot, or two standard knots if there is no sap.

At sixteen inches and over, will admit of five inches of bright sap and one standard knot; if there is no sap, then three standard knots will be admitted.

Two and one-half, three, and four inch First and Second Poplar shall be ten inches and over wide.

Three-eighths, one-half, five-eighths, and three-fourths inch Firsts and Seconds shall be ten inches and over wide, and contain not less than seventy-five per cent. of Firsts.

POPLAR SQUARES.—Shall be of the combined grades of Firsts and Seconds; 4x4 must be clear of all defects, excepting one-half inch of sap on the face side; 5x5 and 6x6 will admit of two inches of bright sap on one face; 7x7, 8x8, 9x9, and 10x10, will admit of three inches of bright sap on one face. Squares must be free of hearts and unsound knots.

BOX BOARDS.—Is a special grade.

SAP CLEAR.—Shall be sound, but not black, and six inches and over in width, and free from all defects.

COMMON.—Shall include any width not less than six inches, and will allow of bright or discolored sap and knots beyond those described in Seconds. Two unsound standard knots will be allowed in this grade if over twelve inches wide; and straight splits shall not be considered a defect; otherwise, lumber must be sound.

CULL POPLAR.—Shall include all grades not up to the standard of Common, and must be available one-half of its size without waste.

POPLAR STRIPS.

Poplar Strips shall be four and six inches wide, and known as Clear, Second Clear, and Common.

CLEAR.—Shall be free from all defects.

SECOND CLEAR.—May have bright sap, but be free from other defects.

COMMON.—May contain from one to four standard knots, and a slight amount of discolored sap.

HARD WOOD LUMBER.

BLACK WALNUT.

The grades of Black Walnut shall consist of the combined grades of Firsts and Seconds, Rejects, Shipping Culls, and Mill Culls. The combined grades of Firsts and Seconds shall consist of fifty per cent. of Firsts and fifty per cent. of Seconds, unless otherwise stated.

FIRSTS.—Shall not be less than seven inches in width; from seven to ten inches, shall be clear of all defects; ten to sixteen inches wide, may have one and one-half inches bright sap, or one standard knot; sixteen inches wide and upwards, may have two inches of bright sap, or two standard knots.

SECONDS.—Shall not be less than six inches in width; from six to eight inches, must be clear of all defects; eight to ten inches, will admit of one and one-half inches of sap, or two standard knots; ten to sixteen inches wide, will admit of two inches of sap, or two standard knots; sixteen inches wide and upwards, may have three inches of sap, or three standard knots; twelve inches wide and upwards, will admit of a split, if straight, one-sixth the length of the piece, provided the piece be equal to Firsts in other respects. Not over ten per cent. of Seconds will be taken with splits of the above character.

REJECTS.—Shall not be less than four inches in width; from four to seven inches, may have one inch of sap, or one standard knot; seven to twelve inches wide, may have two inches of sap, or two sound knots; twelve to eighteen inches wide, may have four inches of sap, or four sound knots; above eighteen inches, may have five inches of bright, sound sap.

SHIPPING CULLS.—Shall include all lumber not equal to Rejects, that will average and work one-half of its width and length without waste.

MILL CULLS.—Shall embrace everything not included in Shipping Culls, and must work one-fourth of its size without waste.

CHERRY.

Cherry shall be graded and inspected according to the rules given for Black Walnut, with the exception of gum specks. Gum specks in Cherry are a defect, and if excessive will lower the piece one or two grades.

BUTTERNUT OR WHITE WALNUT AND CHESTNUT.

Butternut or White Walnut and Chestnut shall be inspected Firsts and Seconds, and Culls.

FIRSTS AND SECONDS.—Must not be less than six inches wide and clear up to eight inches; but at eight inches, may have one inch of sap or two standard knots. Defects may increase with the width, in proportion. Worm-holes are absolutely excluded from this grade.

CULLS.—Shall include all lumber not up to the standard of Seconds, but shall work not less than one-half of its size.

RED SWEET GUM.

Red Sweet Gum shall be inspected according to the rules governing Poplar, with the exception of sap on Firsts and Seconds, two inches of sap being the extreme width allowed on pieces eighteen inches wide and upwards, a proportionate amount being allowed on pieces running from that down to ten inches.

ASH, BEECH, COTTONWOOD, SUGAR MAPLE, SOFT OR WATER MAPLE, AND SYCAMORE.

Ash, Beech, Cottonwood, Sugar Maple, Soft or Water Maple, and Sycamore shall be inspected according to the rules governing Poplar, with the exception of bright and sound sap, which will not be considered a defect.

PLAIN OAK.

FIRSTS.—Shall not be less than eight inches in width; from eight to twelve, shall be clear; twelve to sixteen inches wide, may have one standard knot; sixteen to twenty inches wide, may have two standard knots, showing on one side only, or two inches of sound sap. Worm-holes will not be admitted.

SECONDS.—Shall not be less than six inches in width; from eight to twelve inches, may have two standard knots; twelve to sixteen inches, may have three standard knots; sixteen to eighteen inches, may have three inches of bright, sound sap.

Live sap admitted on one side in the grades of Firsts and Seconds in Plain Oak, not to exceed one-fifth of the surface, if without other defects.

CULL AND COMMON OAK.—Shall be inspected according to the rules governing Poplar.

QUARTERED OAK.

FIRSTS.—Shall not be less than six inches in width; from six to eight inches, must be clear; eight to twelve inches, may have one standard knot, showing only on one side, or an equal defect.

SECONDS.—Shall not be less than five inches in width; five to nine inches, may have one standard knot, or equal defect; nine to twelve inches, may have two standard knots, or an equal defect.

*** RULES GOVERNING THE BUTTER AND CHEESE TRADE.**

RULE 1. The following rules shall govern the purchase and sale of Butter and Cheese by and between members of the Cincinnati Chamber of Commerce, other than specially provided for by the Call Board rules.

RULE 2. There may be a Call for the purchase and sale of Butter, Eggs and Cheese, or Butter, Egg and Cheese contracts during 'Change hours on all business days. The Call shall be after such forms as the Board of Directors may adopt, and shall be made to cover all grades of Butter and Cheese, and may be varied during the different seasons as may be required.

RULE 3. An Inspector shall be appointed by the Board of Directors, who may be called upon by either the buyer or seller, who shall, when so called, inspect all Butter and Cheese. His compensation shall be as follows: two (2) cents per hundred pounds; but no fees shall be less than fifty (50) cents. The party against whom the decision is rendered shall pay the Inspector's fee. Sales shall be deemed as binding unless the goods sold prove, upon inspection, to be inferior to the grade specified in the sale. In event of a dispute upon the grade between the buyer and seller, if either party shall feel aggrieved by the decision of the Inspector, they shall have the right to appeal to three members of the Chamber, one to be chosen by the buyer, and one by the seller, who, failing to agree, shall select a third, and their decision shall be final. If a decision shall be rendered in favor of the seller, the buyer shall be bound to receive the goods at the price stipulated at the time of purchase. When a decision is rendered in favor of the buyer, the seller shall make good the delivery of other goods of equal quality and grade previous to 3 P. M., or pay the penalty, and all expenses shall be borne by the party against whom the decision is given.

RULE 4. Transactions in Butter and Cheese for immediate delivery shall be deemed as consummated upon announcement of the purchase or sale under the Call, or elsewhere between members. The penalty for non-fulfillment of contract on the part of either buyer or seller shall be five per cent. of the contract price of the goods, except in the transactions of future delivery of Butter and Cheese, where the penalty shall be the difference between the contract price and the market price of the goods on the day on which the fulfillment of the contract shall be demanded, which difference shall be settled by the Butter and Cheese Inspection Committee. But nothing in this rule shall be construed to prevent a different settlement by mutual agreement. Settlement for future deliveries shall be made on the basis of sixty (60) pounds for tubs, and one hundred (100) pounds for firkins.

RULE 5. All sales by members on 'Change of Butter and Cheese shall be considered as cash, unless otherwise agreed between buyer and seller.

RULE 6. No reclamation for tare on butter packages shall be allowed unless returned within one week from date of sale.

CLASSIFICATION OF BUTTER.

CREAMERY—This grade shall be composed of the highest quality of Elgin, Ohio, Indiana and Western; fresh, sweet, and uniform in color, in regular style new packages.

No. 1 DAIRY.—Butter of this grade shall be of the highest grades of butter made, outside of creameries, and shall be in regular style of packages, fresh, sweet, and uniform in color.

No. 2 DAIRY.—Butter of this grade shall be comprised of sweet butter, but of uneven color and style of package.

No. 3 DAIRY.—Butter of this grade shall consist of all grades between the quality of too poor for No. 2 Dairy and the best grades of Grease Butter.

CLASSIFICATION OF CHEESE.

FANCY.—Shall be full cream, perfect in flavor, close made, fine texture, well cured, of uniform color and perfect surface. Boxes to be in good order.

CHOICE.—Shall be slightly, or what is understood in this market as part skimmed, clean flavored, good texture, good surface, and boxes in good order.

On all Cheese offered, the seller shall designate in what section of the country they are made; also state quality and grade. Known marks may be offered on their reputation and may not be full cream.

Off flavored, out of condition, hard skinned, and any grade not classified, may be offered, subject to inspection, by the buyer.

* RULES GOVERNING THE EGG TRADE.

RULE 1. The following rules shall govern the purchase and sale of Eggs by and between members of the Cincinnati Chamber of Commerce, other than specially provided by the Call Board rules.

RULE 2. Parties offering Eggs for sale under the Call shall, when required, name the State where the Eggs were put up or forwarded; or they may be offered by the designating mark, or the mark or name by which they were known in the trade. When Eggs are offered and purchased by their designating mark, or the mark or name by which they are known in the market, there shall be no difference as to quality or condition. The purchaser must accept the Eggs unless it is shown that they have been damaged by some accident, or put up with some evident intent to defraud, or have been held for speculation, or otherwise, out of the regular course of shipments.

RULE 3. Eggs shall be classified as follows: Firsts, Seconds and Thirds. This classification, together with naming the locality in which the Eggs are put up, shall be the form of offering Eggs on Call or elsewhere, when they are not known by marks. When sales are made under the classified Call, the Eggs shall be ready for delivery not later than 3 o'clock, P. M., and this rule shall apply to all deliveries unless otherwise agreed to by both buyer and seller; and such sales shall be deemed as binding unless the Eggs sold prove, upon inspection, previous to delivery, or within twenty-four hours thereafter, to be inferior to the grade specified in the sale. In the event of a difference upon the grade between buyer and seller, the Eggs shall be inspected by the Egg Inspector. It shall be the duty of the Inspector, in his return, to state whether the stock so inspected is Firsts, Seconds or Thirds, and this decision shall be final. If this decision is in favor of the seller, the buyer shall be bound to receive the goods and pay for the inspection. If the decision is in favor of the buyer, the seller shall pay for the inspection and pay the buyer five (5) cents per case penalty, or at that rate, and take back his goods, paying all cartage on the same. Parties desiring inspection must so inform the Inspector on or before 4 o'clock, P. M., on the day of sale. The Inspector must notify both buyer and seller of his decision within twenty-four hours of sale. This rule does not prohibit parties settling without the aid of inspection where both buyer and seller mutually agree to do so. If upon the first delivery to buyer, the goods so delivered do not appear, upon examination, to be of the grade sold, the seller may make a second delivery, or call in the Inspector, in which latter event he shall be barred a second delivery, and the decision of the Inspector shall be final. Both deliveries must be made on the day of purchase, unless otherwise mutually agreed to by both parties. In the event of an extra delivery, the seller shall pay all extra cartage. The same classification shall be used for limed or cold storage Eggs as for fresh, but the explanation of the classification shall be different. The form of the Call for limed or fruit-house Eggs shall be the same as for fresh, except that the word "limed" or "cold storage" shall be inserted between the words "for" and "eggs."

RULE 4. Eggs sold under the Call may be inspected at the option of the buyer or seller, and this inspection shall settle the loss finally. The proportion of packages to be taken out in all cases shall be three out of ten, four out of twenty, five out of thirty, seven out of fifty, and ten out of one hundred. The party who elects to have Eggs inspected shall pay for the same, except as provided under Rule 3.

* Adopted May 15, 1894.

RULE 5. Contracts made for future delivery, when the same are buyer's option, the buyer shall give the seller notice to deliver before 10 A. M., on the day of demand, and the seller shall deliver the same as spot sales, and if no demand for the goods is made by the buyer previous to the expiration of the contract, the seller shall give notice of his readiness to deliver, which shall be deemed a proper tender. The seller shall have the privilege of two deliveries, as in spot sales; inspection to be made the same as for Eggs sold for spot delivery. Eggs sold at seller's option, the seller shall also have the privilege of two deliveries, as at buyer's option.

RULE 6. All sales of Eggs by members of the Chamber shall be considered as cash, except otherwise agreed between buyer and seller; and the delivery to be regular shall be at the business house of the seller, or at any business house within the city limits, provided that the drayage shall not exceed fifty (50) cents on any one lot of twenty-five (25) cases or less, or two (2) cents per case on round lots of twenty-five (25) cases or over, unless there be a fraction of a load in said lot, which said fraction shall be counted the same as a full load; and if in excess of that amount, the difference shall be paid by the seller. In delivering round lots of twenty-five (25) cases or over, no number less than twenty-five (25) cases shall be delivered at any one time, unless there be a fraction of a load in the lot, in which case it may be delivered the same as if a full load.

RULE 7. All difference of opinion as to the construction of the foregoing rules shall be decided by the Egg Inspection Committee, unless one or more of said Committee be interested, in which case the Superintendent, or some member of the Chamber shall serve in the place.

RULE 8. In the case of the death or absence of the Inspector, or his inability from any cause to act, any member of the Egg Inspection Committee may fill his place and perform his duties.

RULE 9. The fees of the Inspector shall be ten (10) cents per case, on the lot so inspected; no fee to be less than twenty-five (25) cents. Loss on Eggs to be computed upon the basis of thirty (30) dozen to the case.

DESCRIPTION OF THE CLASSIFICATION FOR FRESH EGGS.

FIRSTS.—Firsts shall comprise fine marks of Eggs, fresh and reasonably clean; such stock as gives good satisfaction to consumers.

SECONDS.—Seconds shall comprise all stock that is merchantable, and inferior to Firsts.

THIRDS.—Thirds shall comprise all poor stock, in bad order, rotten, etc.; stock considered not really merchantable.

KNOWN MARKS.—Known Marks shall comprise such sorts as are well known to the trade under some particular designation or mark, and shall be of such quality as those familiar with the mark generally understand it to be in the season in which it is offered. The period at which Eggs are to be sold "at mark" or "loss off" to be regulated by the Egg Inspection Committee, and who must give seven days' notice when such rules shall take effect.

TO PASS.—Firsts, to pass at the marks, must not lose to exceed one (1) dozen to the case of thirty (30) dozen. Seconds, to pass at the marks, must not lose to exceed one and a half (1½) dozen to the case of thirty (30) dozen. But should Eggs inspect as Firsts or Seconds in quality, and the loss exceed the amount provided to pass at the marks, the seller shall lose such excess in loss.

DESCRIPTION FOR THE CLASSIFICATION OF LIMED AND COLD STORAGE EGGS.

EXTRAS.—Shall comprise the very finest marks of Limed or Cold Storage Eggs; bright, clean Eggs, put up in the finest manner, where every condition necessary to produce Fancy Limed or Cold Storage Eggs has been complied with.

FIRSTS.—Firsts shall comprise fine marks of Limed or Cold Storage Eggs, such as come in car-load, or smaller lots, and are packed in fine order and reasonably clean; such stock as gives good satisfaction to most consumers.

SECONDS.—Seconds shall comprise all stock that is merchantable and inferior to Firsts.

THIRDS.—Thirds shall comprise all poor stock, in bad order, rotten, etc.; stock not considered really merchantable.

To Pass.—To pass at the marks, the same rules shall govern as for fresh.

*RULES GOVERNING THE FRUIT AND VEGETABLE TRADE.

APPLES.

RULE 1. Sales of Apples on Call shall represent not less than one hundred (100) barrels if from store, and straight lots on arrival at railroad or river in lots of not less than twenty-five (25) barrels in each shipment.

RULE 2. The different grades of Apples shall be known as Prime, Seconds and Rejected, which shall conform to the following description:

Prime shall be sound, of good size, well sorted, well packed, unmixed and fairly uniform throughout the package.

Seconds will represent small, sound, well packed fruit.

Rejected will embrace decayed, frosted or wormy fruit.

RULE 3. A barrel of Apples shall contain not less than two and three-quarters (2¾) bushels.

PEACHES.

RULE 1. Sales of Peaches on Call shall be in lots of twenty-five (25) boxes or twenty-five (25) packages, or more.

RULE 2. The grades of Peaches shall be designated as No. 1, No. 2, No. 3, and Rejected, and shall conform to the following description:

No. 1 shall be sound, large, smooth, uniform in size and quality throughout the package.

No. 2 shall be of medium size, sound and reasonably uniform throughout the package.

No. 3 will consist of sound and mixed fruit.

Rejected will represent all grades below No. 3.

POTATOES.

RULE 1. Potatoes sold on Call shall represent only car lots, or straight lots on arrival at railroad or river amounting to twenty-five (25) barrels or sacks or more, in each shipment, and one hundred (100) barrels or sacks from store.

RULE 2. The grade of Potatoes shall be designated as Choice, Prime, Common and Rejected, and shall conform to the following description:

Choice shall be large, or fairly large, sound, smooth, unmixed, well sorted, and free from faulty and small potatoes.

Prime shall be sound, of fair size, well sorted and unmixed.

Common will embrace sound, mixed or small rough potatoes.

Rejected will embrace unsound and frosted stock.

RULE 3. A barrel of Potatoes shall contain not less than two and three-quarters (2¾) bushels.

INSPECTION.

RULE 1. The Inspector shall, when called upon to act by any member of the Chamber, inspect any fruits or vegetables, and report the quality or grade, according to the rules.

RULE 2. Fees shall be regulated by the Board of Directors, and shall be paid by the party against whom the decision is rendered. An appeal from the decision of the Inspector can be made to the Inspection Committee.

RULE 3. The inspection fee shall be as follows: Potatoes, two (2) cents per barrel; on Apples, two (2) cents per barrel. No inspection less than fifty cents. Car lots in bulk, \$1.50 per car.

° Adopted May 15, 1894.

*** RULES OF THE PRODUCE CALL BOARD.**

RULE 1. A "Call" for the purchase and sale of such goods as may be dealt in by members of the Chamber shall be held during 'Change hours on all business days, whenever ten (10) members are present and desire the Call to proceed, and subject to the rules, adopted by this body, governing the purchase and sale of the articles offered.

RULE 2. The Call shall be under the direction of the Superintendent, who shall designate the Caller, and shall take place at 12 o'clock, M., unless otherwise changed by a vote of the members present.

RULE 3. Parties offering goods shall specify the quality or grade to which they belong, and section from which they came, if requested, and unless otherwise stated by the Caller or the party offering, shall be understood as of the highest grade of the article offered.

RULE 4. Upon the announcement of the Caller, offers to buy or sell shall be in order. The first offer to buy or sell shall first be accepted before subsequent offers at the same price may be placed; but offers not accepted may be withdrawn, at the option of any party offering. Offers to sell at a lower, or buy at a higher figure, shall vacate all previous bids, as also a transaction. All differences as to offers, acceptances, irregular bids or withdrawals shall be decided at once by the Caller, subject to an appeal to the members present.

RULE 5. The Superintendent shall keep or direct the record of the bids, offerings and transactions in a book kept for the purpose.

RULE 6. The following shall be the order and conditions of the Call, which may be varied during the different seasons, as may be required, viz.:

BUTTER.—Spot and Futures, Creamery, No. 1 Dairy, No. 2 Dairy and No. 3 Dairy. Not less than five (5) tubs. Bids limited to one-quarter ($\frac{1}{4}$) cent per pound.

CHEESE.—Spot and Futures, Fancy and Choice. Not less than twenty-five (25) boxes. Bids limited to one-eighth ($\frac{1}{8}$) cent per pound.

APPLES.—Green, car lots on track, arrivals at river, from store, one hundred (100) barrel lots.

POTATOES.—Car lots on track, arrivals at river, from store, one hundred (100) barrel lots. Apples and Potatoes limited to straight shipment on arrival, twenty-five (25) barrels or sacks, or over, and one hundred (100) barrels or sacks from store.

DRIED FRUIT.—Apples, Peaches.

MISCELLANEOUS ARTICLES.—Seeds, etc. In lots and bids at discretion of Caller.

Eggs.—In Cases. Week. Month. Next Month. Firsts, usual merchantable quality, Spot and Futures. Seconds, second quality, Spot and Futures. Known Brands, Barrels, At Mark. Not less than ten (10) cases. Bids limited to one quarter ($\frac{1}{4}$) cent per dozen.

There shall be annually appointed a Committee of five (5) on quotations whose business it shall be to post prices of Eggs, Butter and Poultry, etc., daily.

† RULES GOVERNING INSPECTORS, WEIGHERS, MEASURERS AND GAUGERS.

RULE 1. Inspectors, Public Weighers, Measurers and Gaugers, appointed by the Cincinnati Chamber of Commerce, are not allowed to inspect, weigh, measure or gauge any commodity in which they are directly or indirectly interested.

* Adopted May 15, 1894.

† Adopted October 13, 1896.

TARIFF OF CHARGES

FOR

STORAGE, COMMISSIONS, TARES, ETC.

ADOPTED BY THE BOARD OF DIRECTORS OF THE CINCINNATI CHAMBER OF COMMERCE
SEPTEMBER 10, 1888.

RATES OF STORAGE.

	1st Month.	2d Month		1st Month.	2d Month
Apples, Green, per bbl.....	5c	4c	Canned Goods, 1 gal., per case.....	3c	2½
“ Dried, per bbl.....	5	4	“ “ ½ gal., per case.....	2	1½
“ Dried, per sack.....	3	2½	“ “ 3 lbs. (2 doz.), per case	2	1½
“ Evaporated, per case.....	2	1½	“ “ 2 lbs. (2 doz.), per case	2	1½
“ 1 gal., per case.....	2½	2	“ “ 1 lb. (2 doz.), per case	2	1½
“ ½ gal., per case.....	2½	1¾	Cement, per bbl.....	10	8
Ashes, Pots and Pearls, per tierce...	8	6	Cheese, per box.....	3	2
Bagging, per piece.....	5	4	Cider, per bbl.....	10	8
“ per 100.....	5	4	Coal Oil, per bbl.....	12	10
“ per 50.....	2½	2	Coffee, per bag.....	5	4
“ per 35.....	2	1¾	“ 100 lbs., per case.....	5	4
“ per 30.....	2	1½	“ 60 lbs., per case.....	4	3
Bags, Gunny, per bale.....	15	15	Cotton Ties.....	2	1½
“ Jute, per bale.....	10	8	Cotton Yarn, per bag.....	5	5
“ Seamless, per bale.....	5	4	Cranberries, per bbl.....	10	8
Barytes, per bbl.....	15	10	Crockery, per crate.....	30	25
Batting, 100 lbs., per bale.....	6	5	Currants, per cask.....	25	20
“ 50 lbs., per bale.....	4	3	“ per bbl.....	10	8
“ 25 lbs., per bale.....	3	2½	Dried Fruit, per bbl.....	5	4
Beans (large), per sack.....	5	4	“ “ per sack.....	3	2½
“ (small), per sack.....	3	2	Dry Goods, per case.....	15	15
“ per bbl.....	6	5	“ “ per bale.....	10	10
Beef, per bbl.....	10	8	Earthenware, per cask or crate.....	50	50
“ per tierce.....	12	10	Eggs, case, per season.....	35	
Bitters, 1 doz., per case.....	3	1½	Fish, per bbl.....	4	3
Boots and Shoes, per 100 lbs.....	10	10	“ per ½ bbl.....	3	2
Borax, per bbl.....	8	6	Flour, per bbl.....	5	4
Bottles, per cask.....	50	40	“ in sacks, reduced to barrels, same rate as barrels.		
“ per tierce.....	40	35	Glass, Window, 400 bxs. in car, per box.....	2	2
“ per bbl.....	10	8	“ Window, 200 bxs. in car, per box.....	3	3
Broom Corn, per bale.....	15	10	“ Window, 100 bxs. and less in car, per box.....	5	4
Brooms, per doz.....	5	4	“ Window, very large, imported, per box.....	40	35
Buckets, per doz.....	5	5			
Butter, per bbl.....	15	15			
“ in firkins or tubs, per 100 lbs., per season.....	40				
Candles, per box.....	2	1½			

	1st Month.	2d Month		1st Month.	2d Month
Glassware, per cask.....	50c	50c	Paper, per bundle.....	1c	1c
" per crate.....	50	50	" News, rolls, per car.....	\$10 00	\$9 00
" per tierce.....	15	10	Peaches, Dried, per bbl.....	5	4
" per bbl.....	5	4	" " per sack.....	4	3
" per case.....	8	4	Peanuts, per bag.....	5	4
Glucose, per bbl.....	15	12	Peas, per bbl.....	5	4
Grain, in elevator, regular elevator charges.....			" per sack.....	5	4
" in sacks, per sack.....	3	3	Pecans, per bbl.....	5	4
Hams, per tierce.....	10	8	" per sack.....	4	3
Hay, per ton.....	\$1 00	75	Pepper, per package.....	4	3
" hard pressed, per bale.....	15	10	Pickles, per bbl.....	10	9
" loose pressed, per bale.....	15	12	" per 1/2 bbl.....	8	6
Hemp, per bale (large).....	25	25	" gallon cases.....	3	3
" per bale (small).....	15	15	" 1/2 gallon cases.....	2	2
Hides, dry, car-load lots, each.....	2	1 1/2	" 1/2 gallon cases.....	2	2
" wet, car-load lots, each.....	3	2	" pints.....	2	2
" car load-lots, per bale.....	50	40	Pimento, per package.....	4	3
Highwines, per bbl.....	10	10	Pitch, per bbl.....	6	5
Hops, Domestic, per bale.....	20	15	Plaster, per bbl.....	10	8
" German, per bale.....	25	20	Portland Cement.....	10	8
Horseshoes, per keg.....	5	5	Potash, per box.....	1	1
Household Goods, furniture car...\$3 50	\$3 50	\$3 50	Potatoes, per bbl.....	5	4
Iron and Steel, per 100 lbs.....	2	1 1/2	" per sack.....	4	3
Iron, Pig or Blooms, per ton.....	5	5	Prunes, per cask.....	40	35
Kraut, per cask.....	25	20	" per sack.....	5	4
" per bbl.....	15	10	Queensware, per cask.....	50	50
" per 1/2 bbl.....	12	10	" per crate.....	50	50
Lead, per 100 lbs.....	2	1 1/2	Rags, per bale.....	50	50
Lead, White or Red, per 100 lbs.....	4	3	Railroad Spikes, per keg.....	6	4
Leather, per roll.....	10	10	Raisins, per box.....	2	2
Lemons, per box.....	10	8	Rice, per bbl.....	8	6
Lime, per bbl.....	6	6	" per sack.....	8	6
Liquors, Foreign and Domestic, per 1/2 pipe.....	20	20	Rope, per coil (small).....	3	3
" Foreign and Domestic, per 1/2 pipe.....	10	10	Rosin, per bbl.....	6	5
" Foreign and Domestic, per bbl.....	10	10	Salt, per bbl.....	5	4
Macaroni, per box.....	3	2	" Turk's Island, per bag.....	3	3
Merchandise of all kinds, not speci- fied, per 100 lbs.....	15	15	" Liverpool, per bag.....	5	4
Mill Feed—Bran, Middlings, etc., per sack.....	4	3	Salt peter, per bag.....	4	3
Molasses, per bbl.....	10	8	Seed, Clover, per bag.....	3	3
Moss, per bale.....	20	15	" Timothy, per bag.....	3	3
Nails, per keg.....	3	2	" Flax, per bag.....	2	2
Nuts, per bbl.....	6	4	" Red Top, per bag.....	4	4
" per sack.....	4	3	" Millet, per bag.....	4	3
Oakum, per bale.....	3	3	" Hungarian, per bag.....	4	3
Oil, per bbl.....	10	8	Shot, per keg.....	6	5
" Petroleum, per bbl.....	25	25	Soap, per box.....	2	2
Onions, per bbl.....	5	4	" per case.....	2	2
" per sack.....	5	4	Soda Ash, per cask (large).....	50	40
Oranges, per box.....	10	8	" " per cask (small).....	40	30
" per bbl.....	10	8	" " per tierce.....	30	25
Paint, per bbl.....	12	10	Soda, Caustic, per drum.....	12	10
			" Sal, per tierce.....	8	8
			Starch, per box.....	2	2
			" per bbl.....	5	4
			" per crate.....	5	4
			" per case.....	2	2
			Stoves, large, each.....	35	30

	1st Month.	2d Month
Sugar, per bbl.....	6c	5c
" per hhd.....	30	25
Tallow, per bbl.....	12	10
Tar, per bbl.....	10	8
Tea, per chest.....	8	8
" per ½ chest.....	5	5
" per caddy.....	2	2
Tin, 20x28, per box.....	3	3
" 14x20, per box.....	2	2
" 14x14, per box.....	2	2
Tobacco, Leaf, per hhd.....	50	40
Tubs, per nest.....	5	4
" per doz.....	15	13
Turpentine, per bbl.....	15	12
" 10 gallons, per case....	4	3
" 5 gallons, per case....	3	3
Vinegar, per bbl.....	10	8
Whisky, per bbl.....	10	10

	1st Month.	2d Month
Whiting, per bbl.....	10c	8c
Wine, per cask.....	20	20
" per ¼ cask.....	10	10
" per case.....	3	3
Wool, per sack.....	12	10
Yarn, Wool and Cotton.....	12	10

EMPTY COOPERAGE.

Flour Barrels, each.....	2	2
Ham Tierces, each.....	3	3
Hogsheads, each.....	10	10
Lard Kegs, each.....	1	1
Lard Tierces, each.....	3	3
Molasses Barrels, each.....	3	3
Oil Barrels, each.....	3	3
Pork Barrels, each.....	3	3
Whisky Barrels, each.....	3	3

COMMISSIONS.

On sales of Flour, per bbl.....	10	cents.
On purchase of same, cash in hand, per bbl.....	5	"
On sales of Pork, Beef, Lard, Bacon, Tallow, Oils, Sugar, Molasses, Coffee and Cotton.....	2½	per cent.
Purchasing of the same, cash in hand.....	2½	" "
On sales of Hay, per ton.....	50	cents.
On sales of Domestic Liquors, of all kinds, excepting Whisky and Highwines.....	5	per cent.
On sales of Bourbon or Rye Whis- ky, in bond, per bbl*.....	50	cents.
On sales of Bourbon or Rye Whis- ky, tax paid, per bbl*.....	\$1.00	
On sales of Highwines, on account of distillers, per bbl.....	25	cents.
On sales of Live or Dressed Hogs.	2½	per cent.
On sales of Rye, Wheat and Corn, per bushel.....	1	cent.
On sales of Barley, per bushel....	2	cents.
On sales of Oats, per bushel.....	½	cent.
For use of sacks when furnished by consignee, for each ten days		

out, per bushel.....	1¼	cents.
On Seed, Clover.....	1¼	per cent.
On Seed, Timothy.....	2	" "
On Seed, Flax.....	1½	" "
On Seed, Blue Grass.....	5	" "
On Seed, Herd Grass and Red Top.	5	" "
On Seed, Hungarian and Millet...	2½	" "
On Green Apples, per bbl.....	15	cents.
On Potatoes, per bbl.....	15	" "
On Potatoes, in bulk.....	5	per cent.
On purchase of same, cash in hand.	2½	" "
On sales of Butter and Cheese....	5	" "
On sales of Pig Iron or Blooms...	2½	" "
On sales of Cooperage.....	5	" "
On sales of all other articles of Produce and Merchandise....	5	" "
For guaranteeing Time Sales.....	2½	" "
For drawing and negotiating bills with indorsement.....	2½	" "
For adjusting insurance on losses, on amount received.....	2½	" "
For collecting moneys by legal process.....	2½ to 5	" "
For receiving and remitting money, including purchase of exchange	¼	" "

CHARGES FOR CURING, PACKING, ETC., THE HOG PRODUCT.

PORK BUSINESS.	
Curing Meats in bulk (dry salt), per 1,000 lbs.....	\$3 00
Packing Pork, per bbl.....	2 00
Packing or trimming Pork or Beef in bar- rels, exclusive of barrels, salt and pickle, per bbl.....	45
Packing or trimming Pork or Beef in bar- rels, exclusive of barrels, salt and pickle, in ¼ bbls.....	35

Packing Bulk Meat in hogsheads, exclusive of salt and hogsheads, per hhd.....	35c
Packing Bacon in hogsheads, exclusive of hogsheads, per hhd.....	35
Packing canvased Hams in tierces, exclusive of tierces and paper, per tierce.....	30
Packing Bacon in boxes, exclusive of boxes, per box.....	25
Packing English Meats in boxes, exclusive of boxes and salt, per box.....	50

* Adopted May 7, 1896.

Packing Hams in slack barrels, exclusive of barrels, per bbl.....	\$0 20
Clearing Clear Rib Sides, per 1,000 lbs.....	50
Receiving and bulking Cured Meats, per 1,000 lbs.....	1 25
Overhauling and rebulking Cured Meats, per 1,000 lbs.....	1 00
Smoking Dry Salted Meats, per 1,000 lbs.....	1 50
Smoking Sweet Pickled Meats, per 1,000 lbs.....	2 50
Curing Meats in sweet pickle, per 100 lbs.....	1 00
Canvassing Sugar Cured Meats, exclusive of materials, per piece.....	2 ½
Weighing Bulk Meats or Bacon, per 1,000 lbs.....	12 ½
Nailing, boring, weighing and marking tierces of same, per tierce.....	5
Nailing, boring, weighing and marking of same, per bbl.....	4

CHARGES FOR STORAGE OF THE HOG PRODUCT.

On Pork, where received, per bbl., first month, 8c.; each additional month, 5c.

On Lard, where received, per tierce, first month, 10c.; each additional month, 8c.

On Bulk Meats, where received, per 1,000 lbs., first month, 40c.; each additional month, 20c.

Storage to commence March 1st on all articles

made from hogs received and packed the regular way.

Where pieces are taken in to be cured, storage shall commence with the date of receipt of such pieces.

Bacon, per hogshead, 25c. per month.

Bacon, per ¼ hogshead and box, 15c. per month.

Hams, canvased, each, 1c.

Insurance shall commence at the time the stuff is received, and rates charged shall be governed by the customary rules of insurance companies for short or long policies.

Commissions on sales, 2½ per cent.

COLD STORAGE CHARGES.

Pickled Meats, in tierces, 35c. per tierce for first month, and 25c. per tierce, per month, thereafter.

Dry Salt Meats, receiving, bulking, and one month storage, \$2 50 per 1,000 lbs.; each additional month, \$1 00 per 1,000; rebulking, \$1 25 per 1,000 lbs.

NOTE.—All goods, wares, or merchandise, left or consigned for sale, with or to Commission Merchants, and upon which cash advances have been made, are liable to be sold at any time, should it be necessary, in order to protect the advances made.

RATES OF CHARGES ON COTTON.

1st. The charge for insurance, drayage, labor and sampling, weighing, storage and commission on Cotton to be, in all, \$1 00 per bale, with additional charge for insurance of ¼ per cent. per month, and storage of 15c. per bale, after first month, for each additional month.

2d. Regular rates of insurance, in transit, established by Board of Underwriters, to be charged.

3d. Interest at the rate of 6 per cent. per annum shall be charged on all advances of every character.

NOTE.—All shipments are covered by open policies of insurance, unless owners instruct otherwise at or before shipment; and in all cases where advances have been made, or shipments drawn against, the property is covered to the amount of such advances or drafts, without reference to instructions.

CHARGES FOR RECEIVING AND FORWARDING.

Whisky, Pork, Lard, Fish and Tallow, per bbl.....	5c
Cotton, per bale.....	6
Flour, per bbl.....	3
Kegs of Lard and Butter, per keg.....	2
Hogsheads of Bacon and Tallow, per hhd.....	10
Pork and Bacon, in bulk, per 1,000 lbs.....	10
Hats, Bonnets, Shoes and Feathers, per pkg.....	5
Salt, per bbl.....	3
" per sack.....	2
Leaf Tobacco, per hhd. or box.....	20

Sugar, per hhd.....	15c
Molasses, per bbl.....	6
Beans, Dried Apples and Peaches, per pkg.....	5
Pig Iron, per ton.....	20
All other articles of Produce or Merchandise, per 100 lbs., including transfer.....	10
For advancing charges and freight.....	2 per cent.

NOTE.—All actual charges incurred, including drayage, insurance, cooorage or storage, are to be added to the above rates.

TARES.

Sugar, in hogsheads.....	12 per cent.
Indigo, in ceroons.....	11 " "
Salt, per bbl. (280 lbs.).....	20 pounds.
" per bbl. (7 bush.).....	25 " "

Cotton, Feathers, Salt in bags, and Spices.....	No tare.
All other articles in hogsheads, casks, tierces, barrels, kegs or boxes, not enumerated.....	Actual tare

WEIGHTS.

Standard weights, in the absence of contracts, of various commodities, adopted by the Board of Directors of the Cincinnati Chamber of Commerce and Merchants' Exchange, April 3, 1888:

	BUSHEL.		BUSHEL.
Apples, Dried.....	25 lbs.	Seed, Clover.....	60 lbs.
Barley.....	48 "	" Flax.....	56 "
Barley Malt, including weight of sacks.	34 "	" Hemp, Imported.....	40 "
Beans.....	60 "	" Hemp, Domestic.....	44 "
Buckwheat.....	50 "	" Hungarian.....	48 "
Chestnuts, as to dryness.....	50@56 "	" Lawn Grass.....	16 "
Corn in ear, 70 lbs., until changed by Board of Directors to.....	68 "	" Millet, Common.....	50 "
Corn, Shelled.....	56 "	" Millet, German.....	50 "
Corn Meal.....	50 "	" Orchard Grass.....	14 "
Hair, Plastering.....	8 "	" Osage Orange.....	33 "
Hominy.....	60 "	" Sorghum.....	50 "
Lime.....	70 "	" Red Top.....	14 "
Oats.....	32 "	" Timothy.....	45 "
Onions.....	56 "	" Turnip.....	50 "
Onion Sets, Top.....	28 "	" Rape.....	50 "
" " Bottom, Struck Measure.		Wheat.....	60 "
Peas, Dried.....	60 "		TON.
Peanuts.....	22 "	Broom Corn.....	2,000 lbs.
Potatoes.....	60 "	Bran, Shipstuf and Middlings.....	2,000 "
" Sweet.....	50 "	Coal.....	2,000 "
Rye.....	56 "	Coke.....	2,000 "
Salt.....	*50 "	Hemp.....	2,240 "
Seed, Blue Grass, Kentucky.....	14 "	Iron, Pig, chill mould.....	2,240 "
" Blue Grass, English.....	24 "	" Pig, sand mould.....	2,268 "
" Broom Corn.....	46 "	" Pig, blooma.....	2,464 "
" Castor Beans.....	46 "	" Ore.....	2,240 "
		" Scrap.....	2,000 "

* This, as adopted on April 8, 1888, was 56 pounds, but was changed to 50 pounds April 17, 1888.

MEMBERS
OF THE
CINCINNATI CHAMBER OF COMMERCE
AND
MERCHANTS' EXCHANGE.

JULY 15. 1899.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE. JULY 15, 1899.

NOTE.—The first column indicates the number of the Certificate of Membership; where a blank exists therein, the membership has no certificate. Where an official title in italics is annexed to a name, in the column under the head of "Name," such title, with the title of the corporation following, may not express the present official relations of the member, inasmuch as this shows only the manner in which the name appears in the Certificate of Membership, which is not changed till transferred on the books of the Chamber of Commerce under the rules of the same, though the official relations of the member to the corporation may have previously changed or actually terminated.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
3775	Abernathy, Charles B.	with J. Charles McCullough.	Bookkeeper.	N. E. c. Second and Walnut sta.
1368	Adam, Henry		Brewer.	Camp Washington, City.
1959	Addams, William.	C. B. Cook & Co.	Millers and Distillers.	Cynthiana, Ky.
1171	*Addy, Matthew.			
2777	Ahlens, George F.	Hoffman & Ahlers.	Cincinnati Copper Works.	435 E. Front st.
3942	Ahlens, John H.	C. Schmidt & Co.	Butchers' Supplies	John and Livingston sta.
3320	Ailes, John W.	Alps Coal Co.		Pittsburgh, Pa.
3633	Albrecht, Charles H.	Chas. H. Albrecht & Co.	Carriage Goods.	615 & 617 Main st.
2914	Alexander, M. H.	The M. H. Alexander Co.	Molasses and Syrups.	42 & 44 Main st.
3825	Alexander, W. W.	Louisville & Nashville R. R.	Freight Agent.	Front and Butler sta.
2182	Allen, John H.	Allen & Munson	Flour, Grain and Commission	17 Chamber of Commerce Bldg.
3220	Allen, Thomas H. C.	J. N. Harris & Co. (Limited).	Proprietary Medicines	333 Sycamore st.
380	Allen, Thomas W.	The John H. Hibben Dry Goods Co.	Vice-President	412 & 414 Elm st.
2841	Allison, Robert.	American Type Founders Co.	Type Founders and Electrotypes.	7 Longworth st.
3281	Alma, William H.	The Alms & Doepke Co.	Dry Goods.	Main and Canal sta.
4228	Alter, Frank.	Rockcastle Stone Co.	Building Stone.	Builders' Exchange.
1110	Amann, Edmund.	Old Lexington Club Distillery Co.	Distiller.	Nicholasville, Ky.
3343	Anderson, Charles M.	L. G. Anderson's Sons.	Grain and Lumber	Franklin, O.
4190	Andreas, Percy.	The Jung Brewing Co.	President.	2011 Freeman ave.
1475	Andrew, Charles	J. Walker Brewing Co.	Secretary and Treasurer	1125 Sycamore st.
1474	Andrew, Frank.	P. Andrew & Co.	Grain Commission.	901 & 903 E. Front st.
2194	Andrew, William.	P. Andrew & Co.	Grain Commission.	901 & 903 E. Front st.
4217	Applegate, Lewis L.	Phoenix Grain and Stock Exchange.	Broker.	315 Vine st.
4153	Applegate, William H.			
3725	*Archibald, Robert J. H.	Cincinnati Chamber of Commerce.	Doorkeeper.	Chamber of Commerce Bldg.
4258	*Archibald, Robert M.		Insurance.	131 E. Third st.
982	Arens, August A.			

3745	Armstrong, A. E.	Board of Supervisors	Secretary	Millford, O.
285	Armstrong, Frank A.	Louisville & Nashville R. R. Co.	Soliciting Freight Agent	Court House.
1670	Arnold, Brent, <i>General Agent</i>	Louisville & Nashville R. R. Co.	Commercial Agent	38 Chamber of Commerce Bldg.
4225	Arnold, E. C.	Cin. New Orleans & Tex. Pacific Ry.	Brokers, Stocks, Grain and Provisions	S. E. cor. Fifth and Vine sts.
2286	Arnold, J. M.	Claude Ashbrook & Co.	President	N. W. cor. Fourth and Race sts.
4133	Ashbrook, Claude	Warner Elevator Mfg. Co.	Manufacturers Printing Inks	19 E. Third st.
3718	Atkins, Charles H. M.	The Ault & Wiborg Co.		2613-2631 Spring Grove ave.
3076	Ault, Levi A.	Reuhl Moulding Mfg. Co.		Foot of New st.
1811	Austerlitz, E. H.			1022 W. Eighth st.
1345	Bailey, Samuel, Jr., <i>Sup't.</i>	Cincinnati Transfer Co.	Transportation	Mitchell Building.
181	Baird, Albert B.	James A. Baird & Co.	Wholesale Fruits	131 Public Landing.
180	Baird, James A.	The Mellwood Distillery Co.	Wholesale Fruits	131 Public Landing.
2834	Balke, Rudolph Frank	Irwin, Ballmann & Co.	Note, Stock and Bond Brokers	Louisville, Ky.
2853	Ballmann, F. H.		Lumber	37 E. Third st.
4212	Banning, Leland G.		Coal	S. W. cor. Fifth and Main sts.
53	Bard, S. W.		Local Freight Agent	D. Chamber of Commerce Bldg.
4306	Barnard, Charles A.	C. H. & D. R. R. Co.	River Transportation	Sixth and Baymiller sts.
4286	Barrett, George Johnston	John Barrett & Son	Bankers and Brokers	45 Chamber of Commerce Bldg.
2326	Barrett, Oscar F.	George Eustis & Co.	Grain and Hay	45 Chamber of Commerce Bldg.
3747	Bartlett, Benjamin D.	Bartlett Commission Co.	Coal (Manager)	116 E. Third st.
4295	Bartlett, John B.	The Bauer Coöperage Co.	Contractor	69 Mitchell Building.
2836	Bauer, Jacob M.	W. H. Brown's Sons	Assistant Cashier	Lawrenceburg, Ind.
4234	Bauer, Jacob P.	The Bauer Coöperage Co.	Fruit Commission	Front and Lawrence sts.
2004	Bauer, John G.		Local Manager	Lawrenceburg, Ind.
2056	Bauer, Morris	Citizens National Bank	Carpenter and Builder	425 Bauer ave.
2859	Beazell, Howard M.	H. C. Beekley & Co.	Secretary and Treasurer	United Bank Building.
3950	Beekley, H. C.	Wabash Distillery Co.	Manager	218 W. Sixth st.
1425	Beggs, John	Armour Packing Co.	Feed Store	Terre Haute, Ind.
4331	Beggs, William J.	Cincinnati Tin and Japan Co.	Bookkeeper	35 Main St.
2190	Behrens, Henry	Wood Mow'g & Reap'g Machine Co.	Coal	S. E. c. Sycamore and Canal sts.
1957	Bell, Charles Walter	H. Belmer & Co.	Agent	430 & 432 E. Eighth st.
4135	Bell, T. I.	with James Griffith & Sons	Flour, Grain and Mill Feed	29 E. Pearl st.
3946	Belmer, Albert G.	Bennett & Witte	Commission, Produce	Sixth and Evans sts.
3854	Bender, Andrew	Traders Despatch	Grain and Coal	Hunt and Abigail sts.
3327	Beneker, Henry W.	Nordmeyer & Berding	Solicitor	222 W. Fourth st.
3316	Bennett, W. A.	Pieper & Bergegger	Attorneys at Law	Hamilton, O.
3870	Benninghofen, August	with Strobridge Lithographing Co.	Liquors	S. W. cor. Fourth and Vine sts.
2656	Bent, F. W.	Goebel & Bettinger		708 Washington st., Covington.
3704	Berding, Henry N.	Rheinstrom, Bettman, Johnson & Co.		138 W. Court st.
3886	Bergbecker, Herman H.			Trenton, Butler Co., Ohio.
4287	Berk, Frederick H.			108-118 W. Canal st.
3782	Bernstein, Samuel			Atlas Bank Building.
2839	Bettinger, Albert			908-910 Sycamore st.
3959	Bettman, Morris L.			

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
3236	Bevis, Alfred.	The Mound City Distillery Co.	Vice-President.	St. Louis, Mo.
3239	Biggs, N. H.	Cincinnati Union Stock Yards.	Assistant General Freight Agent.	Spring Grove ave.
3171	Biles, George P.	Cin. New Orleans & Tex. Pacific Ry.		Odd Fellows Building.
381	Biles, J. W.	J. W. Biles & Co.	Commission, Whisky	218 & 220 E. Fourth st.
3355	Biles, William C.	W. C. Biles & Co.	Commission, Whisky	318 Vine st.
794	Bishop, Charles H.	The C. H. Bishop Flour Co.	President.	3 Wiggins Block.
2018	Bishop, Daniel L.	Cincinnati Gas Light and Coke Co.	Purchasing Agent.	S. W. cor. Fourth and Plum sts.
2049	Bishop, R. M., Jr.	Cincinnati Tin and Japan Co.	Vice-President.	S. E. cor. Sycamore and Canal.
4065	Blackburn, David B.	Lysle Coal Co.	Secretary	8 Wood st., Pittsburgh, Pa.
309	*Blackmore, Dawson J.	Krell Piano Co.		
3910	Blackmore, Dawson J.	F. J. Blain & Co.	Secretary and Treasurer	Richmond and Harriet sts.
3975	Blain, Frank J.	The J. M. Blair Brick Co.	Insurance.	63-64 Mitchell Building.
3131	Blair, J. Milton.	Equitable National Bank.	President.	Builders' Exchange.
3506	Blair, John M.	W. W. Blair & Co.	Cashier	22 E. Third st.
2356	Blair, William W.	The Pounsford Stationery Co.	Merchandise Brokers.	119 E. Second st.
4118	Blakemore, Louis H.		Stationers, etc.	131-135 E. Fourth st.
3134	Blase, Henry F.	Postal Telegraph Cable Co.	Merchant Tailor	Covington, Ky.
4145	Bliss, Robert C.	Abe Bloch & Co.	Manager	23 E. Fifth st.
2092	Bloch, Abe.	Elias Block & Sons	Clothiers.	810 & 812 Main st.
878	Block, Joseph E.	Leon Block & Co.	Bookkeeper	130-134 Sycamore st.
3463	Block, Leon.	Elias Block & Sons	Wholesale Liquors	135 E. Third st.
875	Block, Louis T.	Elias Block & Sons	Wholesale Liquors.	130-134 Sycamore st.
876	Block, Samuel.	Blome & Dreifus.	Wholesale Liquors.	130-134 Sycamore st.
4006	Blome, Fred. H.		Produce Commission.	1010 Race st.
3911	Blong, Thomas.	Glas, Bloom & Co.	Live Stock Dealer	Eggleston Avenue Stock Yards.
2709	Bloom, Abraham.		Produce Commission	115 & 117 E. Front st.
4302	Blumenthal, Max.		Commission.	31 Chamber of Commerce Bldg.
4309	Boch, Charles, Jr.	German National Bank.	Flour, Feed, Grain, etc.	2870 Colerain ave.
713	Bohrer, George H.	The Samuel Born Co.	President.	S. E. cor. Third and Walnut sts.
2630	Born, Samuel.	Gambrinus Stock Co.	Grain.	Lafayette. Ind.
73	Boss, Christian, <i>President</i>	Gambrinus Stock Co.	Brewing.	Sycamore and Abigail sts.
74	Boss, C. W., <i>Secretary</i>	Gambrinus Stock Co.	Brewing.	Sycamore and Abigail sts.
3945	Boswell, William.	Wm. Boswell & Co.	Life Insurance	228 & 230 W. Fourth st.
4326	Bowman, Robert B.	Star Union Line.	Fast Freight Line (Agent).	4 E. Fourth st.
3231	Boyd, James N.	Poland & Boyle.	Tobacco	Richmond, Va.
4029	Poyte, Stephen S.	Cincinnati Chamber of Commerce.	Real Estate.	131 E. Fourth st.
63	Bradbury, George S.	with J. & F. Schroth Packing Co.	Chief Clerk.	Chamber of Commerce Bldg.
924	Bradley, F. A.	Consolidated Coal and Mining Co.	Bookkeeper.	315 Vine st.
3595	Bramer, Theodore.	Louis., New Albany & Chicago Ry.	Commission, Live Stock	Camp Washington, City.
1299	Bramble, A. L.		Secretary	Stockton Butler Co., O.
3952	Brashear, John.		Flour and Lard	Mitchell Building.
3457	Brauer, Frederick A.		Commercial Agent.	848 W. Sixth st.
3640	Brecourt, George S.			S. W. cor. Fourth and Vine sts.

3610	Breed, William J.	The Crane & Breed Mfg. Co.	President	1213-1259 W. Eighth st.
990	Breneman, Charles W.	Chas. W. Breneman & Co.	Manufacturers of Window Shades	1013 Walnut st.
728	Breneman, H. L.	Thoms & Breneman	President.	9-15 E. Third st.
4250	Brenner, Ferdinand.	Ferd. Brenner Lumber Co.	President.	418 Pike Building.
94	Breuer, C. C.	Union Distilling Co.	Distillers.	312 Plum st.
3985	Brinkman, Edward H.	Bromwell & Bruce.	Attorneys at Law.	1006-1010 Richmond st.
4182	Bromwell, J. H.	The Smith-Kasson Co.	Boots and Shoes.	16 Masonic Temple.
3692	Brooks, Charles G.	Cin'ti Leaf Tobacco Warehouse Co.	Leaf Tobacco.	40 & 42 W. Fifth st.
2058	Brooks, Levi H.			7-19 W. Front st.
3229	*Brooks, Reuben B.			
3937	Brossenne, William G.	J. R. Brown & Co.	Flour and Feed	1320 Madison av., Covington, Ky.
337	Brown, Charles A.	Grasselli Chemical Co.	Flour and Grain Commission.	41 Walnut st.
1771	Brown, Charles E.		Attorney at Law	St. Paul Building.
4188	Brown, Corwin D.		Superintendent (Cincinnati Agency.	Pearl st. and Eggleston ave.
2045	Brown, Daniel W.		Bookkeeper, Ass't U. S. Treasurer.	Government Building.
3339	Brown, Henry W.	Star Union Line.	Flour and Feed.	842 W. Sixth st.
1448	Brown, H. Wilson.	L. F. Brown & Co.	Soliciting Agent.	4 E. Fourth st.
2194	Brown, L. F.	Consolidated Boat Store Co.	Live Stock.	2740 Spring Grove ave.
837	Brown, Paris C.		Manager.	222 & 224 Public Landing.
245	Brown, Thomas F.	Brown & Patterson.		2344 Auburn ave.
4281	Brown, William L.	Merchants National Bank.	Hay, Grain and Feed	2841 Eastern ave.
3784	Brown, W. W.	The Foss-Schneider Brewing Co.	Cashier.	S. W. cor. Third and Vine sts.
4139	Broxterman, John G.	John C. Bruckmann Brewing Co.	Receiver.	943-951 Freeman ave.
3515	Bruckmann, Henry A.	W. A. R. Bruehl & Co.	Brewers.	Cumminsville, City.
1926	Bruckmann, William M.	with Washington Insurance Co.	Gen'l Mgr. Home Life Ins. Co. of N. Y.	Cumminsville, City.
2675	Bruehl, W. A. R.	with Jacob Vogel & Son.	Agent.	222 W. Fourth st.
2398	Bruggemann, August.	The Brunswick-Balke-Collender Co.	Pork Packers.	18 E. Third st.
4263	Brunstman, Charles T.	C. C. C. & St. L. Ry. Co.	Manufacturers of Billiard Tables.	2604 Colerain ave.
3337	Brunswick, B. H.		Assistant General Freight Agent.	130 & 132 E. Sixth st.
4152	Buchanan, Richard P.	The P. R. Budd Coal Co.	Real Estate.	Big Four Office Building.
2767	Buckner, W. T.	The Standard Coal Co.	Harbor Towing and Coal.	221 E. Fourth st.
4100	Budd, Clifford M.	Cincinnati Bung-Bush Co.	Coal Dealers.	S. E. cor. Front and Harriet sts.
979	Budd, Peter R.	Cincinnati Cooperage Co.	Brewers' Supplies and Machinery.	S. E. cor. Front and Harriet sts.
4255	Buhrman, Edward R.	Bullock Electric Mfg. Co.	Treasurer and General Manager.	1256 & 1258 Richmond st.
731	Buhrman, Louis H.			Cincinnati, O.
3541	Bullock, George.	Crail & Bunton.	Feed Store.	Norwood, O.
2839	Bunke, Barney.	Joseph Walton & Co.	Wholesale Coal.	Fairmount, City.
4156	Bunton, Charles C.	Burckhardt & Co.	Miner and Shipper of Coal.	45 Chamber of Commerce Bldg.
1704	Bunton, Isaac N.	Burckhardt & Co.	Oils and Lard.	Pittsburgh, Pa.
4317	Burckhardt, Horatio W.	Burger Brothers.	Oils and Lard.	323 Sycamore st.
1633	Burckhardt, Rufus		Hops, Malt and Brewers' Supplies.	323 Sycamore st.
3116	Burger, Charles.		Hops, Malt and Brewers' Supplies.	908 Walnut st.
1351	Burger, Louis.		Stock and Grain Operator.	2116 St. James ave.
3161	Burkam, C. B.	Franklin Bank.	Cashier.	Chamber of Commerce Bldg.
4299	Burkam, Elzey G.			122 & 124 E. Third st.
2427	Burkhold, Henry			

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
3264	Burnside, E. A.	Gideon Burton & Son.	Coal.	Foot of Baymiller st.
921	Burton, Gideon.		Fire and Life Insurance.	S. W. cor. Third and Walnut sts.
2631	Burton, Stephen R.	Ohio Southern R. R. Co.	General Agent.	National Lafayette Bank.
4243	Buskirk, Fred. D.		Railroad.	435 Walnut st.
1428	Byrne, John.			45 Wall st., New York.
4137	Caldwell, Richard F.	Covington Fruit House.	Fruits and Cold Storage.	424 Scott st., Covington, Ky.
569	Calvert, William H.	Merchants & Manufacturers Ins. Co.	President.	131 E. Third st.
3679	Campbell, E. W.	The Perkins-Campbell Co.	Harness and Saddlery.	622-626 Broadway.
717	Campbell, Hugh.		Contractor.	Harrison, O.
4146	Campbell, William H.			N. E. cor. Fourth and Race sts.
2373	Cannon, I. James.	Weil, Cannon & Co.	Produce Commission.	106 E. Front st.
3163	Carew, J. T.	Mabley & Carew Co.	Clothing, Gents' Furnishing, etc.	N. E. cor. Fifth and Vine sts.
1810	Carpenter, William B.	W. B. Carpenter & Co.	Blank Books and Stationery.	310-314 Walnut st.
3759	Carr, Winfield S.		Coal Gauger.	45 Chamber of Commerce Bldg.
3947	Carver, Robert D.	American Steel & Wire Co.		Chicago, Ills.
3341	Chatfield, A. H.	Chatfield & Woods Co.	Paper Dealers.	347-351 W. Fourth st.
3148	Cherry, E. V.	Standard Electrical Works.	President.	S. W. cor. Elm and Pearl sts.
1683	Chisman, Homer.		Grain and Hay Inspector.	Chamber of Commerce.
427	Christy, H. N.	National Grain & Hay Co.	Manager.	Sixth st. and C. H. & D. R. R.
3153	Cianocy, J. B.	Cin. New Orleans & Tex. Pacific Ry.	Contracting Agent.	N. W. cor. Fourth and Race sts.
3810	Clark, George M.	Mitchell, Tranter & Co.	Iron Manufacturers.	N. W. cor. Second and Elm sts.
.....	Clarkson, Austin E.		Whisky.	505 Pike Building.
3719	Clary, R. E. Lee.	Louisville & Nashville R. R. Co.	Contracting Freight Agent.	S. E. cor. Fifth and Vine sts.
1007	Clement, T. B., <i>Surveyor</i> .	Cincinnati Insurance Co.	Fire and Marine Insurance.	21 E. Third st.
4051	Clinton, Charles.		Grain Commission.	Allen Bldg., Fifth and Main sts.
364	Cochran, John A.	with Geo. W. Neare, Gibbs & Co.	Steamboat Inspector.	1590 Waverly ave., Fairm't, City.
1090	Cofin, Samuel W.			N. E. cor. Front and Main sts.
1315	*Colburn, Charles L.	Collins & Co.	Coal and Coke.	Mitchell Building.
978	Collier, Thomas B.	The Cincinnati Street Railway Co.	Hay and Grain.	Hammond Building.
1757	Collins, F. F.	Collins & Co.	Secretary.	N. W. cor. Fifth and Walnut sts.
3410	Collins, James A.	with Collins & Co.	Hay and Grain.	Hammond Building.
3351	Collins, John E., Jr.	Cole & Collins Towboat Co.	Bookkeeper.	Hammond Building.
4237	Collins, John E., Jr.		Secretary and Treasurer.	Foot of Race st.
59	Collins, Val. P.		Groceries, Feed and Lime.	1434-1438 Main st.
120	Coney, M. R.		Hay and Grain Shipper.	Level, Warren Co., O.
4193	Constable, Hiram.	Nat'l Biscuit Co. (Foerster Branch).	Manager.	419 Richmond st.
3815	Copland, Alexander W.	H. F. Corbin & Co.	Whiskies.	425 E. Pearl st. (P. O. Box 95).
3107	Corbin, H. F.	The A. G. Corrie Hotel Co.	Proprietors Grand Hotel.	S. W. c. Fourth and Central ave.
261	Corre, A. G.	C. C. C. & St. L. Ry. Co.	General Freight Agent.	Big Four Office Building.
4206	Coet, Edward F.			

2999	Cost, Richard H.	Harkness, Cowing & Co.	Life Insurance.	Chamber of Commerce Bldg.
3127	Cowing, Rufus A.	Crail & Bunton.	Manufacturers of Candles.	513-519 Eggleson ave.
4196	Cox, Alfred H.	C. Crane & Co.	Coal and Coke.	45 Chamber of Commerce Bldg.
212	Crail, Walter B.	C. B. & Q. R. R.	Wholesale Lumber.	1729 Eastern ave.
3675	Crane, Clinton.	B. P. Critchell & Co.	General Agent.	406 Vine st.
4103	Crawford, Hugh W.	Cincinnati Ice Co.	Real Estate Broker.	N. W. cor. Third and Main sts.
158	Cresap, R. J.	Luhrig Coal Co.	Florists.	110 E. Fourth st.
3097	Critchell, B. P.	Citizens National Bank	Coal.	D. Chamber of Commerce Bldg.
3703	Crowthers, R. C.	E. J. Curley & Co.	Vice-Prest. and Gen'l Manager.	Twelfth and Plum sts.
2544	Cullen, James, <i>President</i> .		President.	N. E. cor. Fourth & Plum sts.
4283	Cunningham, A.		Distillers.	United Bank Building.
147	Cunningham, Briggs S.			Room 28, 9-15 E. Third st.
143	Cunningham, E. W.			Lexington, Ky.
1717	Curley, E. J.			
1890	*Currie, George E.			
131	Dair, Charles E.	Dair Bros.	Millers.	Harrison, O.
130	Dair, William.	Dair Bros.	Millers.	Harrison, O.
1490	*Dalton, Milton A.	Southern Railway.	Commercial Agent.	S. W. cor. Fourth and Vine sts.
4315	D'Amour, C. J.	Campbell's Creek Coal Co.	Miners and Shippers of Coal.	Foot of Baymiller st.
52	Dana, S. F.	Early & Daniel.	Hay and Grain.	N. W. cor. Sixth and Harriet sts.
3381	Daniel, L. B.	C. H. Dater & Co.	Live Stock Commission.	Cincinnati Union Stock Yards.
1706	Dater, Charles H.			Westwood, O.
752	Dater, Gilbert.			139 & 141 W. Sixth st.
4284	David, Benjamin.	J. Wilder & Co.	Seeds.	112 E. Front st.
1880	Davidson, C. M.	Davidson & Co.	Commission, Fruits.	415 Johnston Building.
383	Davis, Arthur W.	Charles Davis & Co.	Real Estate.	N. W. cor. Eighth and Sycamore.
184	Davis, B. F.	Charles Davis & Co.	Pork Packers.	N. W. cor. Eighth and Sycamore.
183	Davis, Charles.		Pork Packers.	N. W. cor. Eighth and Sycamore.
3621	Davis, Charles.	P. C. C. & St. L. R. y Co.	Division Freight Agent.	224 Loraine ave
4230	Davis, George W.	Cincinnati Railroad Omnibus Co.	Tobacco and Cigars.	4 E. Fourth st.
2595	Davis, John C.	William H. Davis & Co.	Superintendent.	520 Race st.
3449	Davis, Wallace M.	Schnolmsire & Co.	Provisions.	51 Chamber of Commerce Bldg.
76	Davis, William H.	William H. Davis & Co.	Butter Exporters.	46 Walnut st.
4001	Day, Frank G.	Schnolmsire & Co.	Wholesale Liquors.	38 Vine st.
434	Debar, Joseph.	J. Debar & Co.	Foreign Fruits.	S. W. cor. Third and Main sts.
1669	DeCamp, J. M., <i>General Agent</i> .	F. Liverpool & London & Globe Ins. Co.	Whisky Commission.	114 & 116 E. Front st.
2967	Delesignore, Fedele.	F. Delesignore & Co.	Bookkeeper.	243 Main st.
2586	Dernham, Max.	M. Dernham & Son.	Malsters.	Court and Broadway.
3701	Denel, Wilbur S.	A. G. Wood & Co.	Hay, Grain, Flour, Feed, etc.	Hamilton, O.
1580	Deuscher, H. P.	H. P. Deuscher & Co.		13-17 W. Fourth st.
3821	Deutsch, Isaac S.	George W. McAlpin Co.		Blanchester, O.
4279	Dewey, Joseph S.	Dewey Bros.		Wellington, O.
3808	Dickinson, William S.			

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
3012	Dickmeier, Henry, Sr.	Diem & Wing Paper Co.	Feed and Commission.	3710 Spring Grove ave.
1932	Diem, Frederick J.	Union Distilling Co.	Paper Dealers.	318 & 320 Elm st.
1891	Dieterle, George F.		Secretary.	1006-1010 Richmond st.
1589	Dillaby, James.		Insurance.	21 E. Third st.
581	Dodsworth, Caleb.	C. Dodsworth Distilling Co.	Distillers.	Carthage, O.
4021	Dodsworth, Thomas.	C. Dodsworth Distilling Co.	Distillers.	Carthage, O.
3295	Doepke, William F.	The Alms & Doepke Co.	Dry Goods.	Main and Canal sts.
1118	*Doll, Charles.			
2541	Dolph, A. M.			504 Neave Building.
4236	Dom, G. C.	C. F. Evans Steel and Iron Co.	Secretary and Treasurer.	22 W. Second st.
1747	Dorman, John C.	Memphis, New Or. & Cin'ti Pkt. Co.	Transportation.	222 & 224 Public Landing.
894	Dorsel, John.	Dorsel & Zimmerman.	Millers.	Newport, Ky.
2592	Douglass, Howard.		Attorney at Law.	S. W. cor. Fourth and Main sts.
4301	Dreese, Harry J.	with S. J. Patterson.	Coal.	Dayton, O.
3987	Dreifus, David S.	Blome & Dreifus.	Produce Commission.	1010 Race st.
4141	Drucker, Frederick.		General Contractor and Coal Dealer.	Home City, O.
2205	Drucker, Nathan.	N. Drucker & Co.	Trunks and Bags.	N. W. cor. Ninth and Broadway.
1293	Dunholter, John.	John Dunholter & Co.	Provisions, Flour and Grain.	55 Walnut st.
4125	Dunklee, John W.	Burnet House Hotel Co.		N. W. cor. Third and Vine sts.
329	Dunlap, R. E.		Stock, Bond and Note Broker.	119 E. Third st.
3307	Dunn, J. W.	The Laidlaw-Dunn-Gordon Co.	Pumps, Machinery, etc.	Pearl and Plum sts
380	Durner, M.	M. Durner & Co.	Commission, Whisky.	219 E. Third st.
2650	Durrett, M. M.		Attorney.	United Bank Building.
41	Dykens, Robert A.	Robert A. Dykins & Co.	Barley, Malt and Oats.	919 & 921 W. Fifth st.
18	Dymond, Richard.	Wm. Glenn & Sons.		240 E. Fourth.
4165	Earle, James T.	Chesapeake & Ohio Ry. Co.	Local Agent.	Third and Rose sts.
2527	Early, H. Lee.	Early & Daniel.	Hay and Grain.	N. W. cor. Sixth and Harriet sts.
3357	Eaton, George F.	Geo. F. Eaton & Co.	Wholesale Grocers.	12 & 14 W. Second st.
3337	Ebersole, George R.	Standard Oil Co.	Local Manager.	105-109 E. Pearl st.
77	Ebersole, William V.	W. V. Ebersole & Co.	Real Estate.	240 E. Fourth st.
2038	Echert, Peter.	The P. Echert Co.	Confectioners.	25-31 W. Court st.
85	Eckert, Howard.		Grain and Provisions.	31 Chamber of Commerce Bldg.
4197	Egan, Thomas F.	J. A. Fay & Egan Co.	Woodworking Machinery.	Front and John sts.
4169	Eggers, John.		Livery Stable and Street Sprinkling.	951-957 Curtis st.
1902	Eisfelder, H. A.	Elaas & Pritz.	Hops, Malt and Brewers' Supplies.	214 & 216 E. Court st.
3027	Elberg, F. W.		Feed Store.	Elmwood Place, O.
2025	Ellis, James W.	Ellis & Fleming.	Grain and Hay.	12 Chamber of Commerce Bldg.
249	Ellison, J. D.		Superintendent.	Grand Hotel.
3887	Ellison, J. F.	Pittsburgh & Cincinnati Packet Line.	Hops, Malt, and Brewers' Supplies.	206 Public Landing.
893	Elaas, Lewis.	Elaas & Pritz.		214 & 216 E. Court st.

3283	Embry, Talton.....	Greene, Embry & Co.....	Live Stock Commission.....	Cincinnati Union Stock Yards. 18 E. Third st.
3279	Emerson, Henry.....	Washington Insurance Co	Real Estate & Investment Securities.	St. Paul Building. Dayton, O.
.....	Emery, Thomas J.....	Thomas Emery's Sons	Wholesale Flour and Commission..	24 Wiggins Block. 118 & 120 E. Second st.
4214	Eminger, Charles Francis.	Allen & Eminger.....	Attorney at Law.....	Covington, Ky.
4293	Engelhardt, Harry E.....	The National Starch Mfg. Co.....	President.....	409 Plum st.
1977	Erkenbrecher, A. G.....	Covington Trust Co.....	President.....	17 E. Third st.
3435	Kerst, John P.....	The E. O. Eshelby Tobacco Co.....	Brokers.....	52 Vine st.
363	Kneibly, Edwin O.....	Ohio Valley National Bank	General Commission.....	Cincinnati Union Stock Yards. 334 Main st.
645	Espy, James.....	George Eustis & Co.....	Auctioneers and Commission.....	334 Main st.
3722	Eustis, George D.....	Patterson & Evans.....		
1857	Evans, Arthur O.....			
4151	*Evans, Joseph B. S.....	The Ezekiel & Bernheim Co.....		
3989	Eversman, J. F.....	The Ezekiel & Bernheim Co.....		
1658	Ezekiel, Henry C.....			
4043	Ezekiel, Walter A.....			
1538	Fairley, William.....			2819 Park ave., Wal't Hilla, City.
3737	Faran, James J.....			213 Bodman ave.
31	Farnham, Charles A.....	C. A. Farnham & Co.....	Fire and Marine Insurance.....	N. W. cor. Fourth and Vine sts.
125	Fareilly, O. B.....	with The John C. Roth Packing Co.	Pork and Provisions.....	1010 Gest st.
1909	*Fechheimer, May.....			
2558	Fedders, John H.....		Flour, Feed and Grain.....	420 Pike st., Covington, Ky.
2483	Felke, Theobald.....		Flour and Commission.....	852 W. Sixth st.
4020	Felton, S. M.....	Cin. New Orleans & Tex. Pacific Ry.	President and Receiver.....	Odd Fellows Building.
3981	Fenger, August.....	Early & Daniel.....	Hay and Grain.....	N. W. cor. Sixth and Harriet sts.
3686	Ferris, Frank.....			
3967	Fetter, O. G.....	Cincinnati Car Service Bureau.....	Superintendent.....	71 Carew Building.
4049	Ficke, George A.....	Christian Moerlein Brewing Co.....	Flour.....	2019-2021 Elm st.
3645	Ficker, Ben.....		New England Bakery.....	Gest and Baymiller sts.
71	Field, R. B.....		Treasurer.....	36 W. Fifth st.
83	Field, Walter H.....	The American Cotton Oil Co.....	President.....	441-465 E. Sixth st.
3710	Fink, Charles.....	John Brenner Brewing Co.....	Produce Commission.....	Covington, Ky.
3988	Finke, H. J.....	Finke & Schwier.....		1008 Race st.
554	*First, Samuel.....			
3972	Fish, Charles E. Jr.....	B. & O. S. W. Ry. Co.....	Local Freight Agent.....	Second and Rose sts.
583	Fisher, Albert D.....	J. W. Fisher & Co.....	Grain and Hay Commission.....	116 & 118 E. Water st.
1310	Fisher, Charles S.....	J. W. Fisher & Co.....	Grain and Hay Commission.....	116 & 118 E. Water st.
4124	Fisher, John.....	Shollenbarger & Fisher.....	Grain.....	Collinsville, Butler Co., O.
592	Fisher, John W.....	J. W. Fisher & Co.....	Grain and Hay Commission.....	116 & 118 E. Water st.
3980	Fitzgerald, John S.....	C. C. & St. L. Ry. Co.....	Contracting Agent.....	N. W. cor. Fourth and Vine sts.
787	Flach, Edward P.....	Flach Brothers Grocery Co.....	Wholesale Grocers.....	N. E. cor. Second and Vine sts.
786	Flach, John W.....	Flach Brothers Grocery Co.....	Wholesale Grocers.....	N. E. cor. Second and Vine sts.
3969	Fleischmann, Julius.....	Fleischmann & Co.....	Distillers.....	N. W. cor. Plum and Perry sts.
4290	Fleischmann, Max C.....	Fleischmann & Co.....	Distillers.....	N. W. cor. Plum and Perry sts.

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
1190	Fleming, F. E.	Ellis & Fleming.	Grain and Hay.	12 Chamber of Commerce Bldg.
3115	Flemming, R. H.	.....	Lumber, Sand & Real Estate.	Ludlow, Ky.
3118	Fletcher, Victor.	.....	Wines and Liquors.	514-518 E. Pearl st.
3983	Flint, William H.	Mihalovitch, Fletcher & Co.	Coal.	Pittsburgh, Pa.
976	Fogg, Arthur L., Agent.	W. H. Flint & Co.	.....	29 E. Fourth st.
666	Folsom, Richard.	Adams Express Co.	Vice-President.	Mitchell Building.
3486	Forbes, J. A.	Consolidated Coal and Mining Co.	Real Estate Agents.	202 E. Fourth st.
142	Forbus, M. S.	Jackson & Forbes.	Grain and Provision Brokers.	B & C. Chamber of Commerce.
1989	Ford, Collin.	M. S. Forbus & Co.	Manager.	413 Vine st.
3898	Ford, William.	Etna Life Insurance Co.	Assistant Manager.	413 Vine st.
2857	Fortney, P. R.	.....	Insurance.	Masonic Temple.
3170	Forwood, W. H.	The Forwood Shoe Mfg. Co.	President.	115-119 W. Pearl st.
348	Foster, Seth C.	The Stearns & Foster Co.	Mfrs. of Wadding and Batting.	114-120 E. Canal st.
658	Foster, Thomas.	.....	Groceries and Produce.	228 Broadway.
2517	Foulds, Frank W.	Foulds Milling Co.	.....	1225-1235 Budd st.
3623	Foulds, Harry G.	Foulds Milling Co.	Commission and Sale Stables.	1225-1235 Budd st.
3300	Fox, Frank.	.....	Coal Dealers.	215 & 217 E. Fifth st.
4253	Fox, John N.	Lawrenceburg Coal Co.	Stock, Grain and Provisions.	Lawrenceburg, Ind.
4147	Frazer, E. S.	.....	Miller and Grain Dealer.	Carlisle Building.
4173	Frazer, Harry E.	L. A. Kinsey & Co.	Wholesale Liquors.	Harrison, O.
4044	Frederick, Robert G.	Union Roller Mills & Grain Elevator.	Wholesale Liquors.	28 Main st.
2342	Freiberg, Abraham.	J. & A. Freiberg.	Distillers.	49 Main st.
2393	Freiberg, Joseph.	Freiberg & Kahn.	Distillers.	216-220 Public Landing.
4321	Freiberg, Henry.	Freiberg & Workum.	Distillers.	216-220 Public Landing.
852	Freiberg, Julius.	Freiberg & Workum.	Proprietor.	316 & 318 W. Seventh st.
2179	Freiberg, J. Walter.	French Bros. Dairy Co.	Secretary and Treasurer.	Fifth and Main sts.
2466	Freiberg, Maurice J.	Dennison Hotel.	.....	Fifth and Lock sts.
4127	French, Tilden R.	The United States Printing Co.	Chemical Works.	312-316 E. Second st.
3776	Frey, John.	.....	Live Stock Dealer.	Bridgetown, O.
3054	Frey, John H.	Alex. Fries & Bros.	Lumber.	219 Pike Building.
2211	*Friedlander, A. J.	.....	Public Weigher.	Harrison ave. & B. & O. S. W. Ry.
3158	Fries, Gustave R.	.....	Live Stock Dealer.	22 E. Eighth st.
2022	Frondorf, George.	Furst Bros.	Wholesale Liquors.	330 Main st.
3573	Fuhrmann, A. V.	Furst Bros.	Wholesale Liquors.	330 Main st.
3964	Furlong, John S.	.....	.....	.....
729	Furst, Abe.	.....	.....	.....
2415	Furst, Joseph C.	.....	.....	.....
3797	Furst, Samuel.	.....	.....	.....
3738	Gaddum, Adolph L.	The A. Sander Packing Co.	Pork and Beef Packers.	1022 & 1024 Gest st.
4042	Gaff, Thomas T.	.....	Manager, Gaff Estate.	United Bank Building.

3329	Gale, Albert C.	with Gale Brothers	Salesman	14 W. Front st.
557	Gale, B. W.	Gale Brothers.	Commission, Flour and Grain.	14 W. Front st.
558	Gale, John F.	Gale Brothers.	Commission, Flour and Grain.	14 W. Front st.
3891	Gale, P. M.	with Gale Brothers.	Clerk.	14 W. Front st.
2324	Gamble, David B.	The Procter & Gamble Co.	Soap, Candles and Oils.	United Bank Building.
529	Gamble, James N.			74 Carew Building.
47	Gano, Gazzan.	Central Trust and Safe Deposit Co.	Secretary and Treasurer.	115 E. Fourth st.
1667	*Gano, John A.	Howell Gano & Co.	Hardware, Cutlery and Guns.	320 Walnut st.
1554	Gano, J. W.	C. O. Gansel & Son.	Fire Insurance.	119 E. Third st.
1870	Gansek, Charles O.	H. Garlick & Co.	Naval Stores and Commission.	126 W. Water st.
919	Garlick, Henry	with E. D. Moore	Flour, Grain and Mill Feed.	9 Chamber of Commerce Bldg.
3646	Garnier, Charles L.	Kanawha Coal and Coke Co.	Attorney at Law	405 & 406 Johnston Building.
3857	Garrison, Jephtha.	C. H. & D. R. Co.	Miners and Shippers of Coal.	Foot of Mill st.
3820	Garrison, F. L.		Contracting Agent.	S. W. cor. Fourth and Vine sts.
3179	Gazlay, A.	Union Distilling Co.		Dayton, O.
680	Gebhart, Simon.	Union Distilling Co.	Salesman	1004-1010 Richmond st.
3092	Geisler, Julius.	William Gerst Brewing Co.	President.	1006-1010 Richmond st.
647	Gerke, George	Geo. W. Neare, Gibbs & Co.	Insurance.	Nashville, Tenn.
3150	Gerst, William	Conrad Giebel & Co.	Provisions.	N. E. cor. Front and Main sts.
2974	Gibbs, Edwin C.	Oskamp, Nolting & Co.	Diamonds, Watches and Jewelry	57 Walnut st.
3934	Giebel, Conrad	Gilliam & Dana	Coal.	S. W. cor. Fifth and Vine sts.
4160	Gillfillan, John R.	with A. H. Warren	Cotton Factors and Brokers.	Foot of Baymiller st.
2067	Gillham, Robert P.	American Linseed Oil Co.	Local Agent.	120 E. Canal st.
4307	Gilliam, Thomas H.	Goebel & Bettinger.	Member Board of City Affairs.	40 Vine st.
4314	Ginn, Charles E.	Henry L. Goemann & Co.	Attorneys at Law.	240 E. Fourth st.
17	Glenn, James M.	with Herman Goepfer & Co.	Grain	Atlas Bank Building.
2585	Goebel, Herman P.	Herman Goepfer & Co.	Malt, Hops and Brewers' Supplies.	607-608 Rialto Bldg., Chicago, Ill.
2563	Goemann, Henry L.	Herman Goepfer & Co.	Malt, Hops and Brewers' Supplies.	S. W. cor. Hunt and Sycamore.
242	Goepfer, Charles W.		Malt, Hops and Brewers' Supplies.	S. W. cor. Hunt and Sycamore.
241	Goepfer, Edward.			S. W. cor. Hunt and Sycamore.
240	Goepfer, Herman.			S. W. cor. Hunt and Sycamore.
886	*Goetz, John, Jr.	Joseph Good & Son.		1828 Kinney ave.
2685	Gold, George J.	The Bradstreet Co.	Grain Commission.	N. E. cor. Fourth and Walnut st.
3889	Good, Henry J.	with Putnam, Hooker & Co.	Superintendent.	12 E. Third st.
3458	Goodale, Levi C.	Cin'ti Equitable Fire Insurance Co.	Cashier.	16 & 18 E. Second st.
2217	Goodman, S. Horace	National Lafayette Bank		38 E. Third st.
1051	Goodman, T. S., Secretary.	The W. J. M. Gordon Chemical Co.	Lumber.	118 & 120 E. Third st.
1336	Goodman, W. A., President.	National Lead Co.	President.	435 E. Court st.
1782	Goodman, William A., Jr.	The City & Suburban Telegraph Ass'n.		1960-1970 Plum st.
1005	Gordon, W. J. M.	Goyert & Vogel.	Manager	S. W. c. Seventh and Freeman av.
206	Goshorn, A. T.	Union Grain and Hay Co.	Commission.	S. W. c. Seventh and Freeman av.
207	Goshorn, E. C.		Manager	Glendale, O.
3182	Gould, William H.			Telephone Building.
1256	Gove, William H., Solicitor.			49 Walnut st.
342	Goyert, J. H.			N. W. cor. Race and Water sts.
3338	Granger, W. W.			

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
1567	Grant, Edward S.	Cincinnati Provision Export Co.	Provisions.	35 Chamber of Commerce Bldg. 1087 Madison av., Covington, Ky.
1975	Graves, Alonzo.	Adam Gray & Co.	Fire Insurance.	32 E. Third st.
1989	Gray, Adam.	Cin'ti. Portsmouth & Virginia R.R.	General Freight Agent.	Carlisle Building.
4062	Gray, Eugene F.	Cincinnati Life Association.	Secretary.	Hammond Building.
2755	Gray, John H.	Greene, Embury & Co.	Live Stock Commission.	Cincinnati Union Stock Yards.
3210	Greene, Thomas M.	The I. & E. Greenwald Co.	Founders and Machinists.	720 E. Pearl st.
3211	Greenwald, T. L.	The I. & E. Greenwald Co.	Founders and Machinists.	720 E. Pearl st.
191	Griffith, G. P.	Citizens National Bank.	Vice-President.	C. H. & D. R. R. n. of Gest st.
4122	Griffith, Thomas L.	The Hill & Griffith Co.	Foundry Supplies.	Hunt and Abigail sts.
1435	Griffith, William.	James Griffith & Sons.	Contractors and Builders.	N.W. cor. Sixth and Central ave.
3195	Griffiths, Samuel T.	S. T. Griffiths & Bro.	Grocers.	730 W. Third st.
4272	Grogan, James J.	White Oak Distillery Co.	Proprietor.	34 Main st.
3499	Grote, Frank C.	Grote Chemical Co.	Chemicals, Drugs and Oils.	522 Walnut st.
4071	Grote, J. G. F., Jr.	Grote Chemical Co.	Mattresses and Bedding.	315-319 Hunt st.
844	Grotliach, Henry.	The Henry Grotliach Co.	Flour and Feed Mills.	Greenville, O.
4015	Grubbs, Edgar A.	E. A. Grubbs Grain Co.	Manager.	Foot of Race st.
3083	Grubbs, Isaac W.	The Gerke Brewing Co.	Coal Gauger.	Plum and Canal sts.
2309	Grueter, J. Herman.	The National Starch Manuf'g Co.	Secretary and Treasurer.	25 & 27 W. Second st.
3774	Grueter, Hugo.	The Jacobs Cordage Co.	Manager.	1205 Budd st.
1174	Guckenberg, Charles.	The Jacobs Cordage Co.	Secretary.	1205 Budd st.
3503	Guckenberg, Fred.	Atlas National Bank.	President.	Atlas Bank Building.
3380	Guckenberg, George.	Atlas National Bank.	Vice-President.	118 & 120 E. Third st.
352	Guthrie, James V.	National Lafayette Bank.		
1392	Haacke, Henry.	Cincinnati Volksfreund.	Publishers.	S.W. c. Longworth and Vine sts. Avondale, City.
474	Haer, George.	The Hall-Moore Manufacturing Co.	Bicycle Novelties.	225 W. Pearl st.
3003	Hall, Charles O.	The Hall-Moore Manufacturing Co.	Manufacturers of Safes (President).	Spring Grove ave. & Kinney st.
767	Hall, Edward C.	The Hall's Safe Co.	Coal.	201 Scott st., Covington, Ky.
3846	Hall, Thomas J.	Roberts & Hall.	Investments.	44 E. Third st.
3340	Hall, Walker P.	The Cincinnati Coopersage Co.	Cashier.	Cincinnati, O.
3223	Hall, William A.	The Hall's Safe Co.	Manufacturers of Safes (Treasurer).	Spring Grove ave. & Kinney st.
1576	Hall, W. Harry.	Marmet-Smith Coal and Coke Co.	Hay and Grain.	601 Neave Building.
3967	Halm, George M.	inland Oil Co.	Oils and Car Grease.	Harrison ave. & B. & O. S.W. Ry.
3903	Hamann, Henry W.			503 & 504 Johnston Building.
870	Hamilton, G. W., Sec'y and Treas.			
3914	*Hammer, J. B.	Wiborg, Hanna & Co.	Wholesale Lumber.	Glendale, O.
3063	Hanks, Richard.	Hanna Lumber Co.	Wholesale Lumber.	Gest st. and McLean ave.
4168	Hanna, John P.	Hanna Lumber Co.	Wholesale Lumber.	Gest st. and Dalton ave.
4167	Hanna, William T.	Hawley Down-Draft Furnace Co.	Contracting Agent.	328 W. Pearl st.
4157	Hannan, E. Thomas.			

3631	Harding, Edward C.	Underwriters' Ass'n of Cincinnati.	Secretary	United Bank Building.
2846	Harris, George W.	James Levy & Bro.	Distillers and Liquor Dealers	St. Paul Building.
3530	Harrison, W. H.	W. H. Harrison & Co.	Coffee and Spices	210 Walnut st.
3874	Hart, Edward	E. Hart & Co.	Cloths and Woolens	40 E. Fifth st.
2389	Hartweg, Gottlieb	Huntington & St. Louis Towboat Co.	President and Treasurer	Foot of Race st.
2783	Hartweg, Gottlieb	Huntington & St. Louis Towboat Co.	Secretary	Foot of Race st.
4222	Harwood, Fred. H.	Illinois Central R. R.	Commercial Agent	423 Vine st.
1680	Haskins, Robert	R. Haskins & Co.	Provisions	206 Walnut st.
3656	Hatfield, James	Hatfield Coal Co.	President	634 Madison av. Covington, Ky.
3004	Hauk, Louis J.	The John Hauk Brewing Co.	Vice-President	Central ave. and Dayton st.
2288	Hauk, P. W. J.	The John Hauk Brewing Co.	Manufacturers of Bags	Central ave. and Dayton st.
2817	Hauser, Stephan, Jr.	The Hauser, Brenner & Fath Co.	Manufacturers of Bags	103-110 Division st.
2780	Havlin, John	Mente & Co.	Resident Manager	St. Louis, Mo.
2122	Hayes, Timothy	Millcreek Distilling Co.	Resident Manager	1509 & 1511 W. Sixth st.
3694	Hays, W. F.	General Electric Co.	Coffee and Spice Mills	420 W. Fourth st.
533	Hearne, J. D., President	Third National Bank	Flour, Feed and Commission	23 & 25 E. Third st.
1828	Heekin, James	James Heekin & Co.	Secretary	N. W. cor. Walnut and Water sts.
3018	Hehman, G. Jr.	G. Hehman & Son	Flour, Feed and Commission	131 & 133 E. Water st.
782	Hehman, Louis	Piqua Malt Co.	Secretary	317 Sycamore st.
2486	Heid, John B.	Heid & Koss	Flour	305 Vine st.
4310	Heidelberg, Seward	Fabian Manufacturing Co.	Manufacturers of Ladies' Wear	225 W. Fourth st.
2818	Heidrich, Charles	Charles Heidrich & Co.	Produce Commission	33 Walnut st.
1607	Heile, B.	Henry Heile & Sons	Hay and Grain	2535 Vine st.
4298	Heile, Anthony L.	Henry Heile & Sons	Hay and Grain	N. E. cor. Walnut and Water sts.
1794	Heile, Frank, Jr.	Henry Heile & Sons	Hay and Grain	N. E. cor. Walnut and Water sts.
1456	Heile, Henry	P. J. Goodhart & Co.	Bankers and Brokers	N. E. cor. Walnut and Water sts.
2445	Heinsheimer, Edward L.	J. F. Heitneyer & Sons	Wholesale Grocers	42 E. Third st.
2835	Heitneyer, Charles W.	J. F. Heitneyer & Sons	Wholesale Grocers	50 Walnut st.
633	Heitneyer, J. F.	Heitneyer Glass Co.	Manufacturers of Glass	50 Walnut st.
1207	Heningray, Dan C., Manager	Henderson Lithographing Co.	Lithographers	Covington, Ky.
1896	Henderson, W. D.	The J. H. Hermes Co.	Commission, Hay and Grain	418-422 Sycamore sts.
1785	Hennekes, G. Henry	George Herzog & Co.	Commission, Hay and Grain	12 Walnut st.
1189	Hermesch, J. H.	George Herzog & Co.	Wholesale Liquors	11 & 13 Main st.
237	Herzog, George	Brush Electric Light Co.	Commission	30 Main st.
718	Hess, Jacob F.	Brush Electric Light Co.	Commission	123 & 125 E. Water st.
4174	Hess, Jacob F.	with Joseph Heuermann	Hay, Grain and Mill Feed	1189 W. Sixth st.
3592	Hesser, Charles F.	Cincinnati Gas Light and Coke Co.	Vice-President	S. W. cor. Fourth and Plum sts.
3721	Heuermann, Charles	Union Grain and Hay Co.	Feed and Grain	Court and Broadway
3674	Heuermann, Joseph	W. G. Hill & Co.	Feed and Grain	Court and Broadway
831	Hickenlooper, A., President	W. G. Hill & Co.	Fire Insurance	S. W. cor. Fourth and Plum sts.
1287	Hill, Edward C.	W. G. Hill & Co.	Wholesale Grocers	131 E. Third st.
4121	Hill, Harry H.	W. G. Hill & Co.	Wholesale Grocers	Race and Water sts.
417	Hill, William G.	Fifth National Bank	Attorney at Law	45 Vine st.
4159	Hinkle, A. Howard		President	Commercial-Tribune Building.
2610	Hinkle, Thornton M.			Commercial-Tribune Building.
3322	Hinsch, C. A.			S. W. cor. Fourth and Vine sts.

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
4067	Hinsch, Chapman R.	Hinsch Coal and Coke Co.	Distillers and Redistillers.	Foot of Vine st.
1126	Hirsch, Simon.	Hirsch, Loewenstein & Levi.	Captain	529 & 531 Walnut st.
3965	Hissom, M. L.	Steamer "Tacoma"	Leaf Tobacco.	Foot of Vine st.
4150	Hite, John L.	Hite & Heizer.	Hoop-poles and Coopersage.	25 Vine st.
2087	Hoban, Nicholas J.	Diamond Distilleries Co.	President.	S. E. cor. Race and Water sts.
55	Hobart, William N.			417-425 E. Pearl st.
2337	*Hoeflinghoff, Charles.	Hoffheimer Bros.	Redistillers and Whisky Dealers.	123 & 125 Sycamore st.
524	Hoffheimer, Abraham.	with Hoffheimer Bros.	Traveling Salesman.	123 & 125 Sycamore st.
3493	Hoffheimer, Clarence A.	with Hoffheimer Bros.	Cashier.	123 & 125 Sycamore st.
525	Hoffheimer, Milton S.	with Hoffheimer Bros.	Superintendent	123 & 125 Sycamore st.
3787	Hoffheimer, Samuel A.	with Hoffheimer Bros.	Redistillers and Whisky Dealers.	123 & 125 Sycamore st.
3717	Hoffmann, Samuel S.		Pork Packers.	S. W. c. Cent. av. and Baymiller.
2948	Hoffmann, John.	John Hoffmann's Sons.		2148-2162 Coleman st.
3788	Hoffmann, John.		Butcher.	217 W. Sixth st.
2546	Hoffmann, Michael, Jr.			42 & 44 Main st.
947	Holden, R. A.	R. A. Holden, Jr. & Co.	Dried Fruit, Beans, etc.	42 & 44 Main st.
259	Holden, R. A., Jr.	C. M. Holloway & Co.	Salt.	119 E. Second st.
195	Holloway, C. M.	Knaul & Holt.	Commission, Flour and Grain.	13 Chamber of Commerce Bldg.
3913	Holt, Emery Wilson.	W. C. Biles & Co.	Commission, Whisky.	313 Vine st.
952	Holterhoff, Godfrey.	Homan Silver Plate Co.	Manufacturers Silver-plated Ware.	214-222 E. Seventh st.
2556	Homan, Joseph T.	Homan Silver Plate Co.	Manufacturers Silver-plated Ware.	214-222 E. Seventh st.
4014	Homan, Louis.	Joseph Honhorst & Co.	Sheet Iron Workers	469 & 471 E. Front st.
3848	Honhorst, Henry E.	Putnam, Hooker & Co.	Dry Goods Commission.	16 & 18 E. Second st.
260	Hooker, James J.	The John Shillito Co.	Dry Goods, Carpets, etc.	Race, Seventh and Shillito Place.
1083	Hopple, William A.		Attorney at Law	Johnston Building.
4292	Horstman, Theodore F.	Hosea & Co.	Grocers and Commission.	S. W. cor. Front and Main sts.
1164	Hosea, R. H.			S. W. cor. Front and Main sts.
2316	Hosea, Robert.			
4232	Hostler, Sidney P.	The House & Palmer Co.	Millers.	Lockland, O.
1935	House, George.	Houston, Stanwood & Gamble.	Engine Builders	Covington, Ky.
3840	Houston, Charles R.	Aurora Distilling Co.	also Sunnyside Distilling Co.	344 W. Fourth st.
2885	Howe, C. L., President		Wholesale Liquor Dealer.	135 Sycamore st.
128	Howe, Robert.		Distillers.	344 W. Fourth st.
3139	Howe, Willard W.	Henry W. Smith & Co.	Grain Commission.	N. E. cor. Fourth and Walnut.
1781	Hoyt, J. W.	J. W. Hoyt & Co.	Live Stock Commission.	Cincinnati Union Stock Yards.
3683	Hubbard, Charles R.	Huddleston, Hubbard & Co.	Wholesale Coal.	
1921	*Hubbell, George.		Secretary	Foot of Race st.
990	Hubbell, W. M., Jr.		Distillers.	Room 9, 41 E. Fourth st.
2787	Hughes, Harry W.	Hubbell, W. M., Jr.		131 E. Third st.
3618	Hukill, Winfield S., Jr.	Merchants & Manufacturers Ins. Co.		Silver Creek, Ky.
2831	Hume, E. B.	W. S. Hume & Co.		1606 Plum st.
471	Hunnewell, H. G.		Soaps, Candles and Oil.	

787	Hunt, William L.	.....	.....	.....	Agent, Johnston Estate	.....	316 Johnston Building.
807	Huntington, Frank	.....	.....	.....	Real Estate	.....	N. E. cor. Main and Saunders sts.
3607	Huntington, Frederick G.	.....	.....	.....	.....	.....	62 & 64 S. Canal st., Chicago.
1880	Huschart, Frank M.	.....	.....	.....	Provisions	.....	51 Chamber of Commerce.
1865	Huschart, George H.	.....	.....	.....	Note, Stock and Bond Brokers	.....	9-15 E. Third st.
49	Hutton, William E.	.....	.....	.....	.....	.....	.....
1063	Immenhorth, Henry, Jr.	.....	.....	.....	Manager	.....	Neave Building.
98	Ingalls, M. E.	.....	.....	.....	President	.....	Big Four Office Building.
1572	Ireland, George F.	.....	.....	.....	Commission	.....	49 Walnut st.
3968	Irwin, Harry R.	.....	.....	.....	Provisions	.....	St. Louis, Mo.
3328	Irwin, William G.	.....	.....	.....	.....	.....	Hartwell, O.
1756	Irwin, William T.	.....	.....	.....	Note, Stock and Bond Brokers	.....	37 E. Third st.
3587	Isaacson, William J.	.....	.....	.....	Pig Iron	.....	213 & 214 Johnston Building.
3749	Ives, Franklin	.....	.....	.....	President	.....	106 E. Water st.
3369	Izor, Monroe	.....	.....	.....	Flour Inspector	.....	55 Walnut st.
4026	Jackson, James P.	.....	.....	.....	President	.....	Georgetown, Ky.
4227	Jacob, Charles	.....	.....	.....	Pork Packer	.....	1872 Plum st.
265	Jacob, Charles H.	.....	.....	.....	Sunnyside Distilling Co.	.....	344 W. Fourth st.
3288	Jacob, Joseph L.	.....	.....	.....	Pork and Beef Packers	.....	Camp Washington, City.
1569	Jacoby, J. B.	.....	.....	.....	.....	.....	Seven Mile, Butler County, O.
1602	Janszen, August	.....	.....	.....	Wholesale Grocers	.....	S. W. cor. Pearl & Walnut sts.
1603	Janszen, Henry	.....	.....	.....	Teamster	.....	S. W. cor. Pearl & Walnut sts.
229	Jelke, Ferdinand	.....	.....	.....	Commission	.....	53 Walnut st.
3542	Jenkins, T. M.	.....	.....	.....	Coal	.....	335 Water st., Pittsburgh, Pa.
1298	Johnson, Brooks	.....	.....	.....	Coal	.....	839 Hutchins ave.
2895	Johnson, James T.	.....	.....	.....	.....	.....	Front and Broadway.
2295	Johnson, John A., Asst. Secretary	.....	.....	.....	Attorneys at Law	.....	Covington, Ky.
3346	Johnson, J. William	.....	.....	.....	Wholesale Liquor Dealers	.....	18-19-20 Chamber of Com. Bldg.
190	Johnson, W. W.	.....	.....	.....	Machinists	.....	120 & 122 Sycamore st.
4215	Johnston, William T.	.....	.....	.....	Manager	.....	522 Main st.
4228	Jones, Charles, Jr.	.....	.....	.....	Sales Agent	.....	Foot of Elm st.
2893	Jones, Clarence H.	.....	.....	.....	Atorney at Law	.....	973 W. Front st.
2413	Jones, Frank J.	.....	.....	.....	Miners and Shippers of Coal	.....	41 E. Fourth st.
3960	Jones, John H.	.....	.....	.....	General Agent	.....	Pittsburgh, Pa.
.....	Jones, Robert B.	.....	.....	.....	Secretary and Treasurer	.....	Carew Building.
4142	Jones, Thomas P.	.....	.....	.....	Fire Insurance	.....	Foot Fifth st. and Freeman ave.
2396	Jones, Walter St. John	.....	.....	.....	Secretary and Treasurer	.....	23 E. Third st.
3153	Jung, J. George	.....	.....	.....	.....	.....	2019 & 2021 Elm st.
2836	Kaes, George	.....	.....	.....	.....	.....	2122 Woodland ave.
2127	Kahn, Bernhard	.....	.....	.....	Wholesale Grocers	.....	33 & 35 Vine st.

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
219	Kahn, Charles, Jr.	Chas. Kahn, Jr. & Son	Loans and Real Estate	16 E. Third st.
1216	Kahn, Felix.	F. & L. Kahn & Bros.	Stove Manufacturers	Hamilton, O.
444	Kahn, Lazard.	F. & L. Kahn & Bros.	Stove Manufacturers	Hamilton, O.
2439	Kain, Michael.	J. J. Sullivan & Co.	Undertakers	421 Central ave.
2519	Kaus, John.	with J. F. Sadler & Co.	Live Stock Dealers	Cincinnati Union Stock Yards.
4246	Keller, George.	Third National Bank.	Hay, Grain and Flour	725 Monmouth st., Newport, Ky.
824	Kellogg, Charles H., Jr.	D. M. Kennedy & Co.	Vice-President.	23 & 25 E. Third st.
496	Kennedy, D. M.	Lewis Kennedy & Son.	Forwarding Flour and Grain	Hamilton, O.
420	Kennedy, John M.	with Gale Bros.	Proprietors, St. Clair Hotel	48 Chamber of Commerce Bldg.
487	Kennedy, Lewis.	Kerr Grocery Co.	Grain	N. W. cor. Sixth and Mound sts.
4320	Kennedy, Maxwell.	Kerr Grocery Co.	Grain	14 W. Front st.
1638	*Kennett, John	.....	Wholesale Grocers.	33 & 35 Vine st.
1340	Kerr, J. C.	.....	Feed and Grain.	633 E. Pearl st.
3411	Kettler, John B.	.....	Tin, Slate and Tile Roofer	107 W. Second st.
2813	Keys, John B.	.....	Electrical Engineer.	N. W. cor. Fifth and Walnut sts.
3871	Kiechler, Philip S.	Cincinnati Street Railway Co.	President.	N. W. cor. Fifth and Walnut sts.
3835	Kilgour, B. L.	Cincinnati Street Railway Co.	Coal and Coke.	125 E. Fourth st.
502	Kilgour, John.	Kineon Coal Co.	Agent.	S. W. cor. Fourth and Vine sts.
3	Kineon, Sol. P.	Canada Southern Line.	Iron and Steel	30 W. Fourth st.
3909	King, Charles H.	American Express Co.	Distiller.	405 W. Fourth st.
2618	Kingsbury, Charles G., Agent.	George Kinsey & Co.	.....	Milledale, Ky.
2528	Kinsgey, George.	The Latonia Distillery	Feed and Grain	160 Pike st., Covington, Ky.
58	Kinsinger, Fred.	.....	Distillers	121 Sycamore st.
2637	*Kirchner, Frank.	Klein & Kluemper	Hay and Grain	N. W. cor. Sixth and Harriet sts.
938	*Klein, Christian.	Klein Brothers	Hay and Grain	Twelfth and Vine sts.
4270	Klein, Gus.	with Early & Daniel	President.	N. W. cor. Third and Walnut sts.
2754	Klein, Simon.	Western German Bank	Grain Commission.	13 Chamber of Commerce Bldg.
2803	Klein, William	Rudolph Kleybolte & Co.	Capitalist.	306 Vine st.
3016	Kleybolte, Leopold.	Knaul & Holt.	Flour Commission	1110 Sycamore st.
3501	Kleybolte, Rudolph	Held & Koss	Hay and Grain	S. E. cor. Vine and
3982	Knaul, Charles E.	The Shinkle-Wilson-Kreis Co.	Wholesale Grocers	Harriet and Richmond sts.
659	Knaul, M., Jr.	Krell Piano Co.	Wholesale Grocer.	N. E. cor. Second and Race sts.
3955	Koss, Nicholas	.....	Coal and Coke	Mitchell Building.
4163	Kramer, William H.	.....	.....	414 Walnut st.
1184	Kreis, John A.	.....	Salesman	908-910 Sycamore st.
3289	Krell, Albert, Jr.	The Gerke Brewing Co.	.....	.....
3063	Kroger, B. H.	{ with Rheinstrom, Bettman, John-son & Co.	.....	.....
3600	Kroger, Robert J.	.....	.....	.....
2355	Krohn, Louis.	.....	.....	.....
3319	Kuerze, Robert M., President.	.....	.....	.....
3561	Kugel, Ignatius.	.....	.....	.....
1023	*Kuhlmann, Bernard	.....	.....	.....

2425	Kuhn, Edward.....	A. Senior & Son.....	Wholesale Whisky.....	Mitchell Building. 24 E. Third st.
1543	Kuhn, Louis.....	S. Kuhn & Sons.....	Bankers.....	24 E. Third st.
3905	Kuhn, Simon.....	S. Kuhn & Sons.....	Bankers.....	133 E. Front st.
1742	Kushman, Frederick.....	F. Kushman & Co.....	Produce and Commission.....	Kyle's, O.
631	Kyle, B. F.....	Kyle & Williamson.....	Grain and Live Stock.....	
995	* Kyle, John.....			
2135	Lackman, Albert.....	The Herman Lackman Brewing Co.....	President and Treasurer.....	823 W. Sixth st.
2136	Lackman, H. F.....	The Herman Lackman Brewing Co.....	Vice-President.....	823 W. Sixth st.
3948	* Lafferty, A. R.....		Weiher.....	Cor. Budd and Harriet sta.
725	Lafferty, D. C.....		Deputy Weiher.....	Cor. Budd and Harriet sta.
1380	Lafferty, D. E.....		Produce and Commission.....	132 W. Court st.
652	Lahmann, Henry.....	Lahmann & Beeching.....		2153 Grand st.
3142	Laidlaw, Robert.....		Feed Store.....	Foot of Broadway.
2	Laidley, F. A.....	C. P. B. S. & P. Packet Co.....		Carthage, O.
3052	Lampe, John B.....		Bread and Cracker Bakers.....	323-407 Lock st.
546	Langton, Perin.....	Nat'l Biscuit Co. (Langdon Branch).....	Malt and Brewers' Supplies.....	24 W. McMicken ave.
698	Langhorst, Henry A.....	Albert Schwill & Co.....	Stock Broker.....	111 E. Third st.
1906	Laralde, E. N.....		Superintendent.....	932 & 934 W. Fifth st.
3668	Latta, L. I.....	Cincinnati Elevator Co.....	Managers, Royal Insurance Agency.....	United Bank Building.
1279	Law, Charles H.....	John H. Law & Bros.....	Wholesale Grocers.....	114 & 116 E. Second st.
743	Laws, Harry L.....	The James H. Laws Co.....	Tin Plate and Metals.....	440 & 442 Main st.
1012	Lawson, F. H.....	The F. H. Lawson Co.....	Stock Brokers.....	114 E. Third st.
4040	Lea, Este M.....	Lea & Co.....		322 Broadway.
273	Lehmer, James D.....		Real Estate and Note Brokers.....	29 E. Third st.
4088	* Lemon, William M.....		Commission.....	44 Walnut st.
1537	Lepper, Adam.....	A. Lepper & Co.....	Foreign Fruits and Fancy Groceries.....	100 & 102 E. Front st.
1970	Lett, Allen W.....	Lett & Co.....	Grain Commission.....	Chamber of Commerce
2234	Leverone, John.....	J. Leverone & Co.....		533 Walnut st.
3967	Levi, Edwin J.....	Strasburger & Levi.....		P. O. Box 517, City.
3765	Levi, Jacob C.....		Distillers and Redistillers.....	529 & 531 Walnut st.
748	Levi, Louis S.....	Hirsch, Loewenstein & Levi.....	Distillers and Liquor Dealers.....	St. Paul Building.
1715	Levi, Sol. W.....		Distillers and Liquor Dealers.....	St. Paul Building.
432	Levy, Albert.....	James Levy & Bro.....	Attorneys at Law.....	18-19-20 Chamber of Com. Bldg.
2461	Levy, Harry M.....	James Levy & Bro.....	County Auditor—Court House.....	P. O. Box 583, City.
431	Levy, James.....	Johnson & Levy.....	China, Glass and Crockery.....	216 & 218 E. Third st.
2871	Levy, Lipman.....		Manager.....	Big Four Office Building.
393	Lewis, Eugene L.....	Lewis & Nehlett.....	Leaf Tobacco.....	19 W. Front St.
3998	Lewis, Thomas M.....	Kanawha Dispatch.....	Agent.....	Sixth and Harriet sta.
4208	Lewis, Thornton.....	W. H. Lewis & Co.....		Glendale, O.
1809	Lewis, W. H.....	Big Four Grain Elevator.....	Attorney at Law.....	United Bank Building.
3924	Lindsay, John D.....			501 Johnston Building.
305	Lippmann, H. H.....			
3180	Lippincott, W. J.....			
2715	Lloyd, H. P.....			

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
566	Loewenstein, Daniel.....	A. Loewenstein's Sons.....	Wholesale Butchers.....	S. W. c. John and Livingston sts.
563	Loewenstein, Herman.....	Cincinnati Abattoir Co.....	Distillers and Redistillers.....	N. W. c. John and Livingston sts
1127	Loewenstein, Max.....	Hirsch, Loewenstein & Levi.....	General Agent.....	529 & 531 Walnut st.
3901	Logan, Charles E.....	Connecticut Mutual Life Ins. Co.....	Smoked Fish and Provisions.....	205 Johnston Building.
3683	Lohrey, Jacob.....	Long, West & Co.....	Live Stock Commission.....	2147-2151 Kindel ave.
1983	Long, Simon.....	Loudon & Co.....	Grain Commission.....	Cincinnati Union Stock Yards.
618	Loudon, James A.....	.....	.....	32 Chamber of Commerce Bldg.
2045	*Lovett, J. B.....	.....	Capitalist.....	N. E. cor. Pearl and Race sts.
846	*Lovett, Thomas D.....	.....	Feed and Grain.....	1707 Elm st.
2814	Lowman, James.....	Lueders & Co.....	President.....	1400 Harrison ave.
4268	Lueders, Adolf G.....	Herancourt Brewing Co.....	Treas. and Gen'l Manager.....	Foot of Mill st.
1002	Lutterbey, Rudolph.....	Queen City Coal Co.....	.....	.....
2771	Lynn, M. E.....	.....	.....	.....
2906	*McAlpin, William.....	with Early & Daniel.....	Hay and Grain.....	N. W. cor. Sixth and Harriet sts.
1929	McCabe, John P.....	.....	Member, Board of City Affairs.....	City Hall.
3025	McCallister, William.....	with City and Suburban Tel. Ass'n.....	Auditor.....	Telephone Building.
1783	McComas, Richard T., Jr.....	A. W. McCormick & Sons.....	Attorneys at Law.....	63 Pike Building.
3405	McCormick, Andrew W.....	.....	Provision Agent.....	Cincinnati, O. (Gen'l Delivery)
1985	McUrea, Charles T.....	J. M. McCullough's Sons.....	Agricultural Implements and Seeds.....	316 & 318 Walnut st.
494	McCullough, Albert.....	J. M. McCullough's Sons.....	Salesman.....	316 & 318 Walnut st.
3977	McCullough, Harrie B.....	J. Charles McCullough.....	Seed Commission.....	N. E. c. Second and Walnut sts.
495	McCullough, J. Charles.....	Standard Oil Co.....	President.....	105-109 E. Pearl st.
216	McDonald, Alex.....	Hornet Coal Co.....	Coal.....	99 Water st., Pittsburgh, Pa.
3861	McDonald, Marshall H.....	.....	Attorney at Law.....	First National Bank Building.
3726	McDougall, Thomas.....	Cincinnati Enquirer.....	Business Manager.....	617 Vine st.
406	McDowell, J. J.....	The John H. McGowan Co.....	Pumping Machinery.....	58 Central ave.
3729	McGowan, John H.....	Clifton Springs Distilling Co.....	Secretary.....	Cumminsville, City.
2141	McHugh, James T.....	.....	Proprietary Medicines.....	205 & 207 W. Fifth st.
1371	*McIlvain, Thomas.....	J. N. Harris & Co. (Limited).....	Coal.....	333 Sycamore st.
3750	McIntyre, M. B.....	with The Marnet Co.....	Collector.....	S. W. c. Central ave. & Water st.
3221	McKenzie, Stephen M.....	Cincinnati Enquirer.....	Proprietor and Publisher.....	617 Vine st.
3549	McKinley, William H.....	C. H. & D. R. R. Co.....	General Freight Agent.....	Carew Building.
4259	McKinney, W. H.....	C. H. & D. R. R. Co.....	Assistant General Freight Agent.....	Carew Building.
409	McLean, John R.....	with W. W. Johnson & Co.....	Commission, Whisky.....	120 & 122 Sycamore st.
1478	McLeod, A. H.....	with Henry Heile & Sons.....	Manager, Grain Department.....	N. E. cor. Walnut and Water sts.
3691	McLeod, Albert D.....	The Post Publishing Co.....	Freight Agent.....	211-221 Longworth st.
689	McNamara, T. E.....	P. C. C. & St. L. Ry. Co.....	.....	Front and Butler sts.
3313	McQuillan, William R.....	.....	.....	.....
.....	McRae, Milton A., Manager.....	.....	.....	.....
4304	McReynolds, Horace.....	.....	.....	.....

330	Macbrair, W. C.	Macbrair Lithographing Co.	Vice-President and General Manager.	S. E. cor. Fifth and Sycamore sts.
4069	Macdonald, Alfred J.	The C. & O. Fuel Co.	Secretary	Neave Building.
3827	Macdonald, Donald	The C. & O. Fuel Co.	President	Neave Building.
3439	Macdonald, John M.	with The Procter & Gamble Co.	Manager, Freight Department.	United Bank Building.
877	Mack, E. J.	Elias Block & Sons	Distillers	130-134 Sycamore st.
2864	Mack, M. J.	Mackey Towboat Line.	Life Insurance	United Bank Building.
4053	Maescher, John	Maescher & Co.	Sullage and Towboating	Foot of Baymiller st.
1176	Maescher, J. V.	Maescher & Co.	Pork and Beef Packers.	1754 & 1756 Central ave.
3686	Maescher, Louis J.	Maescher & Co.	Pork and Beef Packers.	1754 & 1756 Central ave.
1177	Maescher, William	Phoenix Insurance Co.		Cedar Point, Hamilton Co., O.
....	Magill, H. M., Agent.	Maguire & Co.	Grain Commission	S. W. c. Race and Shillito Place.
186	Maguire, Charles S.	Maguire & Co.	Contracting Agent.	11 Chamber of Commerce Bldg.
3366	Maher, James J.	Erie Despatch.	Wholesale and Retail Grocer.	11 W. Fourth st.
2335	Mahoney, James	W. P. Mappes & Co.	Produce Commission	232 Broadway.
3997	Mappes, William P.			8 & 10 W. Court st.
2030	Marblestone, Manuel			622 W. Seventh st.
3444	Marcus, M.	M. Marienthal & Son	Contractor and Builder	1513-1521 Plum st.
3636	Marienthal, Moses	Cincinnati Volksblatt.	Hides, Wool and Tallow	529-539 Poplar st.
14	Markbreit, Leopold	The Marnet Co.	President and Manager	637 Vine st.
4296	Marnet, Edwin		Coal and Coke	S. W. c. Central av. and Water st.
812	Marnet, Otto	The Marnet Co.	Coal and Coke	421 Clark st.
3908	Marnet, William	T. Marshall & Co.	Coal and Coke	S. W. c. Central av. and Water st.
4270	Marshall, Thomas	with The Shinkle-Wilson-Kreis Co.	Produce Commission	122 E. Front st.
3687	Martin, Robert A.	C. H. & D. R. Co.	Salesman	Front and Vine sts.
4278	Mason, John G.	Custner, Curran & Bullitt.	General Southern Agent.	S. W. cor. Fourth and Vine sts.
3895	Mather, Henry R.		Coal and Coke (Agent).	201 & 202 Neave Building.
3065	*Mathews, George	Mattian & Bro.		Foot of Niagara st.
4082	Mattian, John	Mattiox & Van Deren	Queen City Harbor Co.	Cynthiana, Ky.
3689	Mattiox, John W.		Groceries, Grain, etc.	204 Public Landing.
956	Mauck, Eli R.	Seasongood & Mayer.	Steamboat Agent.	Neft ave. and Isabella st.
2143	Mayer, Charles	Mayer Bros. & Co.	Statistcian	S. W. cor. Third and Walnut sts.
3868	Mayer, Emil M.		Bankers	23 E. Pearl st.
2536	*Mayer, Lewis	Rogers, Brown & Co.	Wholesale Liquors	
4132	Meacham, D. B.	with Thomas Emery's Sons.	Iron	Carew Building.
4240	Mecke, Robert	Bromwell Brush and Wire Goods Co.	Real Estate, Investm'ts & Securities	St. Paul Building
40	Megru, Joseph R.	The Menderson Clothing Co.	Lumber	30 Broad st., New York City.
3267	Meier, Henry William	W. W. O'Neil Coal Co.	Manfrs. Brushes and Wire Goods	McMicken ave., opp. Race st.
3921	Melish, William B.	Mente & Co.	President	429 Walnut st.
2509	Menderson, Jacob	C. C. & St. L. Ry. Co.		226 E. Fourth st.
4219	Menges, Charles J.	C. C. & St. L. Ry. Co.	Manufacturers of Bags	Pittsburgh, Pa.
3390	Mente, Eugene W.	The H. H. Meyer Packing Co.	General Agent	St. Louis, Mo.
4164	Metzger, George	The H. H. Meyer Packing Co.	Contracting Agent	N. W. cor. Fourth and Vine sts.
4230	Metzger, Philip H.		Pork and Beef Packers	N. W. cor. Fourth and Vine sts.
4286	Meyer, Harry E.		Pork and Beef Packers	S. E. cor. Central av. and Linn st.
66	Meyer, H. H.			S. E. cor. Central av. and Linn st.

• Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
3285	Mihalovitch, B.	Mihalovitch, Fletcher & Co.	Wines and Liquors	514-518 E. Pearl st.
3218	Mihalovitch, Morris	Mihalovitch, Fletcher & Co.	Wines and Liquors	514-518 E. Pearl st.
3249	Miller, Frederick	F. Miller Vinegar and Pickle Co.	Manufacturer Vinegar, Pickles, etc.	1272-1276 Harrison ave.
1143	Miller, Griffin T.	Geo. C. Miller's Sons Carriage Co.	Capitalist	S. W. cor. Third and Walnut sts.
4027	Miller, Howard S.	Irish Paint Co.	Treasurer	713 & 715 Main st.
3392	Miller, John H.	Inland Oil Co.	Manufacturers of Paints	S. E. cor. Second and Main sts.
869	Miller, R. T., <i>Vice-President</i>	Fidelity and Deposit Co. of Maryland.	Oils and Car Grease	503 & 504 Johnston Building.
4275	Millikan, James R.	H. Minges Flour and Feed Co.	Casualty Insurance	408 Neave Building.
2490	Millikin, P. M.	Minor & Dixon.	General Agent	219 Pike Building.
4061	Minges, H., Jr.	The Robt. Mitchell Furniture Co.	Flour and Feed	935 Monmouth st., Newport, Ky.
779	Minor, James R.	The P. R. Mitchell Co.	Wholesale Grocers	212 & 214 Vine st.
1170	Mitchell, Albert H., <i>Treasurer</i>	Mitchell, Robt., <i>President</i>	Wool, Curled Hair, etc.	17-23 W. Fourth st.
873	Mitchell, Pierson R.	Moch, Berman & Co.	Capitalist	122 & 124 W. Pearl st.
1169	Mitchell, Robt., <i>President</i>	C. Moerlein Brewing Co.	Wholesale Clothiers	31 W. Third st.
2911	Moch, Elias	Naley, Thompson & Moffett.	President	31 W. Third st.
2912	Moch, Moses E.	A. Montgomery & Co.	Saw Mill and Wholesale Lumber	2019 & 2021 Elm st.
4248	Moerlein, John	A. Montgomery & Co.	Postmaster of Cincinnati	Eighth st. & McLean ave.
4249	Moffett, T. J.	C. H. Moore & Co.	Coal	Post Office Building.
4319	Monfort, Elias R.	Advance Coal Co.	Coal	Covington, Ky.
1270	Montgomery, Alex.	with T. J. Hall.	Provision Broker	Covington, Ky.
3434	Montgomery, George H.	White Line Central Transit Co.	Coal	51 Chamber of Commerce Bldg.
1290	Montgomery, Robert	Thomas Morrison & Co.	Oils and Lubricants	1321 Broadway.
518	Montgomery, William	Thomas Morrison & Co.	Flour, Grain and Mill Feed	641-647 W. Front st.
4247	Moore, Charles H.	Thomas Morrison & Co.	Attorney at Law	9 Chamber of Commerce Bldg.
2976	Moore, Edward D.	New York, Lake Erie & Western R.R.	Towboat and Barges	N. E. cor. Fifth and Main sts.
3500	Moormann, Frank J.	with R. A. Dykins & Co.	Coal	Pittsburgh, Pa.
2621	Moren, John	Mosler Safe Co.	Provision Broker	201 Scott st., Covington, Ky.
4303	Morgan, Daniel H.	George Zelller Provision Co.	Pork Packers	N. W. cor. Fourth and Vine sts.
3643	Morrill, William S.	Lutterbey & Muhlhäuser	Coal	Rawson Building.
4138	Morrison, George O.	Windisch-Muhlhauser Brewing Co.	Pork Packers	36 Chamber of Commerce Bldg.
114	Morrison, James K.		General Agent	Bank and Osiris sta.
113	Morrison, Thomas		Clerk	Bank and Osiris sta.
3916	Morrison, Thomas H.		Grain Broker	Bank and Osiris sta.
2654	Morrison, William P.		Vice-President	11 W. Fourth st.
3534	Morse, Charles P.		Secretary and Treasurer	Brandon Building.
4072	Morten, Joseph D.		Coal	919 & 921 W. Fifth st.
514	Morton, Edwin		Superintendent	11 Chamber of Commerce Bldg.
2891	Morton, William R.			S. W. cor. Third and Vine sts.
1813	Mosler, Max			1705 Logan st.
3924	Mueller, Fred			Lockland, O.
1982	Mueller, John			1167 & 1169 Harrison ave.
1008	Muhlhauser, Christian			Plum and Liberty sts.
3175	Muhlhauser, Edward C.			

1544	Muhlhauser, Gottlieb	Windisch-Muhlhauser Brewing Co.	President.	Plum and Liberty sts.
1545	Muhlhauser, Henry	Windisch-Muhlhauser Brewing Co.	Vice-President	Plum and Liberty sts.
2941	Muhlhauser, Henry, Jr.	Windisch-Muhlhauser Brewing Co.	Treasurer	Plum and Liberty sts.
54	Mullane, A. J.	Nash, Chat. & St. Louis Ry. Co.	Commercial Agent	United Bank Building.
3711	Mullaney, Daniel J.	Mulvihill & Rohan	Commission, Produce	41 E. Fourth st.
4111	Mulvihill, John C.	Allen & Munson	Undertaker	38 Walnut st.
3398	Munson, George F.	J. G. Murdock & Co.	Commission, Flour and Grain	S. E. cor. Sycamore and New sts.
283	Murdoch, John G.	Agent Groesbeck Estate	Plumbers	17 Chamber of Commerce Bldg.
3123	Murphy, Edwin W.	Editor Cincinnati Price Current		430 Plum st.
4265	Murray, Charles B.	Empire Line	Supt. Chamber of Commerce	407 Johnston Building.
121	Murray, James A.	National Biscuit Co. (Muth Branch)	Agent	Brandon Bldg. & Cham. of Com.
4076	Muth, Aug. E.		Manager	N. W. cor. Fourth and Vine sts.
2750	*Muth, August J.			411-419 Richmond st.
2956	*Muth, Charles F.			
3706				
3783	Nadaud, C. E.		Flour, Grain and Mill Feed	58 Walnut st.
1154	Nagel, Henry		Flour and Feed Mill	2168 McLean ave.
3642	Neare, Clarence J.	Geo. W. Neare, Gibbs & Co.	Insurance	N. E. cor. Front and Main sts.
4131	Neare, G. D.	Geo. W. Neare, Gibbs & Co.	Insurance	N. E. cor. Front and Main sts.
2858	Neff, Clifford Gordon	C. Gordon Neff & Co.	Pumping Machinery	123 E. Third st.
3730	Neil, John W.	The John H. McGowan Co.	Wholesale Confectioners	58 Central ave.
2435	Newton, George G.	Reinhardt & Newton	Manufacturers	8-10 W. Second st.
4305	Niebling, Fred W.	Triumph Ice Machine Co.	Assistant Manager	610-616 Baymiller st.
3456	Nixon, Willard D.	with R. G. Dun & Co.	General Manager	N. W. cor. Third and Vine sts.
4201	Noonan, Thomas H.	Continental Line	Flour, Grain and Mill Feed	Central Union Station.
1131	Nordmeyer, Andrew	Nordmeyer & Berding	Produce Commission	708 Washington st., Cov., Ky.
3992	Norman, Andrew G.	A. G. Norman & Co.	Hay and Grain	40 Walnut st.
3562	Nowlin, Lewis M.		Real Estate	Guilford, Ind.
3606	Noyes, Joseph C.		Assistant Manager	22 Atlas Bank Building.
4177	Nutty, G. R.	National Lead Co.		S. W. c. Seventh and Freeman av.
3189	Offner, Alexander	Mayer, Scheuer, Offner & Co.	Wholesale Clothing	N. E. cor. Third and Vine sts.
3104	*Olmstead, H. B., Cashier	O'Neil & Co.	Coal	Pittsburgh, Pa.
3529	O'Neil, W. D.	W. W. O'Neil Coal Co.	Coal	8 Wood st., Pittsburgh, Pa.
3535	O'Neil, William W.		Provision Inspector	Room C, Chamber of Commerce.
3106	O'Neill, James	Orth Bros.	Flour and Feed	513 Monmouth st., Newport, Ky.
4162	Orth, Joseph G.	C. C. C. & St. L. Ry. Co.	Secretary	Big Four Office Building.
611	Osborn, E. F.	James Walsh & Co.	Distillers	3 Pike Building.
3368	O'Shaughnessy, P.	Oskamp, Nolting & Co.	Jewelers	S. W. cor. Fifth and Vine sts.
3277	Oskamp, William S. P.	Bellevue Brewing Co.	President	601-615 W. McMicken ave.
2672	Osterfeld, August			Covington, Ky.
3698	Osterholt, John L.			

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
4311	Pachoud, Lawrence A.	Western Union Telegraph Co.	Hay and Grain.	1664 Central ave.
3933	Page, C. E.	The House & Palmer Co.	Manager.	N. W. cor. Fourth and Vine sts.
440	Palmer, G. G.	Chesapeake & Ohio Railway Co.	Millers	Lockland, O.
1484	Pape, A. H.	Cin'ti Ice Mfg. and Cold Storage Co.	General Agent	S. W. cor. Fifth and Walnut sts.
836	Parker, James D.	Patterson & Evans.	General Commission.	United Bank Building.
1673	Parker, Luther	Marion County Distillery Co.	President.	417 E. Court st.
45	Patterson, H. B.	Union Central Life Insurance Co.	Coal.	52 Vine st.
3514	Patterson, William, Jr.	with S. F. Dana & Co.	Bookkeeper.	Louisville, Ky.
2433	Patzold, Charles A.	Paxton, Warrington & Boutet.	Attorneys at Law.	S. E. cor. Fourth and Central av.
3941	Paul, John W.	Peck & Williamson Heat & Vent. Co.	Stock and Grain Dealer	Newport, Ky.
115	Paxton, Thomas B.	Joseph R. Peebles' Sons Co.	Flour.	Bank and Osiris sts.
3137	Payne, Henry H.	Grove J. Penney & Co.	Flour.	United Bank Building.
3833	Peabody, W. W.	The U. S. Bung Manufacturing Co.	Stock and Grain Dealer	Camden, O.
1548	Peaslee, John B.	Lyman Perin & Sons.	President.	Madisonville, O.
2926	Peaslee, John B.	Lyman Perin & Sons.	Grocers and Wine Merchants.	330 W. Fourth st.
2924	Peebles, Joseph S.	John J. Perkins & Co.	Commission and Grain Dealers	335-339 W. Fifth st.
153	Penney, Grove J.	Jacobs Cordage Co.	General Manager	15-21 E. Fourth st.
3433	Pentlarge, Frederick	Pettibone Bros. Manufacturing Co.	Superintendent.	48 Mitchell Building.
1043	Perin, Frank L.	C. G. Phister	Farming.	649-655 Evans st.
2578	Perin, Lyman.	Jason Evans Estate.	Agent.	53 Perin Building.
3064	Perin, Lyman, Jr.	The H. & S. Pogue Co.	Dry Goods.	S. W. cor. Second and Main sts.
1918	Perin, Oliver L.	H. E. Pogue Distilling Co.	President.	839 Evans st.
3923	Perkins, William T.	National Insurance Co.	President.	41 & 43 Vine st.
4323	Peter, Emil C.	Poland & Boyle.	Real Estate.	1205 Budd st.
1413	Peters, Ralph, Superintendent.	Block-Pollak Iron Co.	Iron and Metals	Pan Handle Sta., Pearl & Butler.
3565	Pettibone, James	The Mt. Carbon Co. (Limited).	Coal and Coke	692-632 Main st.
1922	Pfister, Frederick	W. G. Pratt Commission Co.	Cooperage and Coopers' Stuff.	508-514 Poplar st.
1001	Phister, Chambers	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	413 E. Pearl st.
3890	Pickelheimer, Moses.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	Constance, Ky.
727	Pine, William.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	4 Temple Bar.
3506	Pogue, Henry.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	20-28 W. Fourth st.
3558	Pogue, John F.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	United Bank Building.
2381	Pollman, G. W.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	21 E. Third st.
3088	Poland, Lawrence.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	131 E. Fourth st.
3831	Poland, William B.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	131 E. Fourth st.
2547	Pollak, Emil.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	Carthage, O.
3847	Powell, Evan.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	Powellton, W. Va.
4108	Pratt, Benjamin F.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	312 & 314 E. Court st.
760	Priz, Benjamin.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	909 & 911 Sycamore st.
3662	Priz, Samuel.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	909 & 911 Sycamore st.
3670	Priz, Sidney E.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	909 & 911 Sycamore st.
759	Priz, Solomon W.	Strauss, Fritz & Co.	Distillers and Liquor Dealers.	909 & 911 Sycamore st.

528	Procter, William A.	The Procter & Gamble Co.	Soap, Candles and Oils.	United Bank Building.
2488	Procter, William Cooper.	The Procter & Gamble Co.	Soap, Candles and Oils.	United Bank Building.
4196	Proser, George.			Mt. Healthy, O.
1637	Pugh, A. H.	A. H. Pugh Printing Co.	Printers and Blank Book Mfrs.	310 Walnut st.
769	Pullen, Richard T.	Herring-Hall-Marvin Co.	Safe and Lock Works (Manager).	Hamilton, O.
259	Putnam, B. W.	Putnam, Hooker & Co.	Dry Goods, Commission.	16 & 18 E. Second st.
3915	Quinn, Richard.	J. B. Hammer & Co.	Produce Commission.	125 E. Front st.
2558	Ranshaw, Henry.	The Stacey Manufacturing Co.	Gas Works Builders.	239 Mill st.
4022	Ransick, Edward.		Commission, Produce.	119 E. Front st.
2938	Rauh, Frederick.	Frederick Rauh & Co.	Insurance.	United Bank Building.
3276	Rauh, Louis L.	Frederick Rauh & Co.	Pork Packers.	306 & 308 E. Pearl st.
2248	Raum, John.	John Raum & Co.	Pork Packers.	Spring Grove av., nr. Hopple st.
999	Rawson, Edward.	J. Rawson & Sons.	Pork Packers.	Spring Grove av., nr. Hopple st.
1000	Rawson, Joseph, Jr.	J. Rawson & Sons.		
1476	Rawson, Warren.			Mitchell Building.
2937	Redway, A. J.	Lackawanna Fast Freight Line.	Agent.	S. W. cor. Fourth and Vine sts.
2752	Reece, M. M.	Chris. Reichel & Co.	Teamsters.	25-29 W. Water st.
4327	Reichel, Geo.	with Seasongood & Mayer.	Bankers.	S. W. cor. Third and Walnut sts.
213	Reis, Julius.	Cincinnati Times-Star Co.	Business Manager.	N. E. cor. Sixth and Walnut sts.
3035	Rembold, C. H.	John H. Remmers & Co.	Pork and Beef Packers.	1456 & 1458 Harrison ave.
3526	Remmers, John H.		Wholesale Coal.	Rawson Building.
4257	Renahan, John A.	Herndon & Renshaw.	Coal.	Neave Building.
4329	Renshaw, Joseph.		Artist.	College Building.
2524	Rettig, John.	Stone Lake Ice Co.	President.	2116 Central ave.
3243	Reynolds, Robert R.	Rheinstrom Bros.	Wholesale Liquors.	Pearl and Martin sts.
1376	Rheinstrom, Abraham.	Rheinstrom Bros.	Wholesale Liquors.	Pearl and Martin sts.
1377	Rheinstrom, Isaac.	Rheinstrom, Bettman, Johnson & Co.	Wholesale Liquors.	906-910 Sycamore st.
3885	Rheinstrom, Sigmund.	Covington Coal Co.	Manager.	Fifth & Madison av., Cov., Ky.
4308	Rice, Benjamin L.		Grain.	2717 Colerain ave.
3087	Rice, Charles F.			
672	*Richardson, J. C.	Standard Oil Co.	General Manager.	105-109 E. Pearl st.
3528	Richey, Robert W.	Cincinnati Radial Drill Co.	Coal Gauger.	1108 Harrison ave.
861	Rieker, William.		General Passenger Agent.	311 Vine st.
3971	Rigdon, Harry.	Cin. New Orleans & Texas Pacific Ry.		Odd Fellows Building.
4136	Rinearson, William C.		Scales, Trucks, etc.	433 W. Eighth st.
201	Roach, P. E.	Fairbanks, Morse & Co.	Investments.	307 Walnut st.
1665	Robb, J. M. D., Manager.	Roberts & Hall.	Iron and Steel.	44 E. Third st.
4035	Roberts, J. Nevlin.	W. F. Robertson Steel and Iron Co.	Freight Cashier.	7 & 8 Chamber of Commerce.
3839	Robertson, William F.	P. C. C. & St. L. Ry. Co.	Manager.	Front and Butler sts.
4288	Robinson, A. L.	Robinson Coal Co.	Robinson Coal Harbor.	Coalburg, W. Va.
4149	Robinson, Arthur.			Ludlow, Ky.
4171	Robinson, John.			
3006	Robinson, Liston C.			

*Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
678	Robson, George W., Jr.	Old "76" Distilling Co.	President.	119 Sycamore st.
4086	Rockel, Charles.	.....	Broker.	19 E. Second st.
3524	Roe, George Mortimer.	.....	.....	1737 E. McMillan st.
4252	Roeder, Albert.	.....	Flour Dealer.	123 E. Liberty st.
4031	Rogers, William C.	Cincinnati Scale Manufacturing Co.	Manufacturer of Scales.	212 Walnut st.
4112	Rohan, Andrew.	Mulvihill & Rohan.	Commission, Produce.	38 Walnut st.
3989	Romer, Louis.	Romer Bros.	Produce Commission.	1011 Race st.
777	Root, George A.	Whitcomb & Root.	Grain and Produce Commission.	23 Chamber of Commerce Bldg.
4252	Root, Harry E.	with Whitcomb & Root.	Grain and Produce Commission.	23 Chamber of Commerce Bldg.
4179	Rose, L. C.	L. C. Rose & Co.	Stocks, Grain and Provisions.	Grand Hotel.
3894	Rosenthal, Myer S.	H. Rosenthal & Sons.	Wholesale Liquors.	228 E. Second st.
4244	Rotert, Charles.	H. Rotert & Co.	Feed Store.	Poplar st. and Western ave.
2753	Rotert, Henry E.	H. Rotert & Co.	Feed Store.	Poplar st. and Western ave.
4223	Roth, Charles E.	The John C. Roth Packing Co.	Treasurer.	1010 Gest st.
2028	Roth, E. N.	.....	St. Nicholas Hotel.	Fourth and Race sts.
3569	Roth, Joseph L.	The John C. Roth Packing Co.	Secretary and Manager.	1010 Gest st.
3072	Rothier, Charles C.	C. C. Rothier & Co.	Fire Insurance.	141 E. Third st.
3114	Rothier, F. A.	Eureka Fire and Marine Ins. Co.	President.	121 E. Third st.
3736	Rothschild, Charles R.	C. R. Rothschild & Co.	Brokers.	N. W. cor. Fifth and Vine sts.
2949	Rover, August.	A. Rover & Co.	General Commission.	221 W. Sixth st.
3770	Rover, Harvey F.	.....	.....	.....
4300	Rover, William H.	with C. A. Rover.	Feed and Hay.	1212 Race st.
798	Rowe, Casper H.	Fleischmann & Co.	General Manager.	N. W. cor. Plum and Perry sts.
724	Royce, Thomas S.	.....	.....	601 W. Sixth st.
3544	Rucker, John J.	J. J. Rucker & Co.	General Merchandise.	Hebron, Ky.
3471	Ruhrmann, Otto.	De La Vergne Refrig. Mch. Co., N. Y.	General Agent.	811 Neave Building.
499	Runk, Charles F.	Runk, Heinseiner & Co.	Fire Insurance.	Rooms 7 and 8, 12 E. Third st.
4178	Runk, John F.	J. F. Runk & Co.	Fire Insurance.	Room 6, 12 E. Third st.
2960	Rupp, George.	George Rupp & Co.	Pork and Beef Packers.	Hamilton, O.
3205	Russell, A. O.	The United States Printing Co.	President and General Manager.	Fifth and Lock sts.
4274	Ryan, Joseph.	Desmond & Ryan.	Manufacturers of Soap.	2625 Spring Grove ave.
224	Ryan, Mathew.	Cincinnati Abattoir Co.	Pork and Beef Packers.	Spring Grove ave.
225	Ryan, Michael.	Cincinnati Abattoir Co.	Pork and Beef Packers.	Spring Grove ave.
227	Ryan, Richard.	Cincinnati Provision Export Co.	President and Treasurer.	35 Chamber of Commerce Bldg.
763	Sadler, L. L.	J. F. Sadler & Co.	Live Stock Brokers.	Cincinnati Union Stock Yards.
2253	Sampson, William S., Jr.	.....	.....	P. O. Box 299, City.
1070	Sander, Adolph.	A. Sander Packing Co.	Pork and Beef Packers.	1022 & 1024 Gest st.
3811	Sanders, William C.	The Old "76" Distilling Co.	Vice-President.	119 Sycamore st.
818	Sandheger, Christ.	.....	Wines and Liquors.	123-129 E. Court st.
4187	Sanford, Kenton.	Adams Express Co.	Superintendent.	27 E. Fourth st.
2392	Sargent, S. A.	.....	Live Stock.	2638 Harrison ave.

Savage, W. T.	Plant System.	Commercial Agent.	22 Chamber of Commerce Bldg.
Saxton, W. S.	Hartford Life Ins. Co.	Coke.	2238 Eastern ave.
Sayers, E. B.	Saylor & Saylor.	Manager.	6 Chamber of Commerce Bldg.
Saylor, Nelson.	R. G. Dun & Co.	Attorneys at Law.	40 E. Third st.
Scarlett, Joseph A.	representing Armour & Co., Chicago.	Mercantile Agency (Manager)	N. W. cor. Third and Vine sts.
Schapker, Bernard.	McIlvain & Spiegel Boiler & Tank Co.	Provision Broker.	120 E. Second st.
Schelsby, John B.	Albert W. Schell & Co.	Secretary	S. W. c. Pearl and Lawrence sts.
Schell, Albert W.		Fire Insurance.	S. W. cor. Third and Walnut sts.
Schepers, William.		Commission.	2454 W. Sixth st.
Scheuer, Jacob	Mayer, Scheuer, Offner & Co.	Wholesale Clothing.	N. E. cor. Third and Vine sts.
Scheutker, John F.	Grossman, Schleutker & Co.	Manfrs. Harness and Saddlery	219 & 221 Main st.
Schlickman, Harry W.	Ruttie-Schlickman Packing Co.	Pork and Beef Packers.	Covington, Ky.
Schlosser, William O.	Schlosser & Co.	Maltsters.	Hamilton, O.
Schmidlapp, J. G.	Union Savings Bank and Trust Co.	President.	Vine & Burnet (Cham. of Com.)
Schmidt, Charles G.	Cincinnati Butchers Supply Co.	Treasurer.	1964 & 1966 Central ave.
Schmidt, Charles W.	The Sam. W. Weidler Co.		938 W. Sixth st.
Schmidt, Frederick.		Real Estate and Loans.	114 E. Fourth st.
Schmidt, Frederick A.	A. Schmitt & Co.	Flour and Commission	850 W. Sixth st.
Schmitt, Anthony.	John Schneider, Son & Co.	Millers and Bakers.	1422 & 1424 Walnut st.
Schneider, George C.		Superintendent.	Raymond City, W. Va.
Schneider, Peter W.	Marnet-Smith Coal and Mining Co.	Real Estate.	119 E. Third st.
Schonebaum, Edward	J. Schriewer & Co.	Flour, Grain and Mill Feed.	Big Four Storage Warehouse.
Schottenfels, Jacob	Schroth, Fred.	Pork and Beef Packers.	Camp Washington, City.
Schriewer, John.	J. & F. Schroth Packing Co.	Salesman	Camp Washington, City.
Schroth, Fred.	Louis C. Schuetze & Co.	Packers and Jobbers of Provisions.	1213-1217 W. Liberty st.
Schroth, Frederick H., Jr.	The National Starch Mfg. Co.	Soap and Candles.	118 & 120 E. Second st.
Schuetze, Louis C.	M. Werk Co.	Malt and Brewers' Supplies.	411 Poplar st.
Schuler, Frank.	Albert Schwill & Co.	Malt and Brewers' Supplies.	24 W. McMicken ave.
Schwartz, Michael.	F. A. Schwill & Son.	Fire Insurance.	317 & 319 Main st.
Schwill, Albert.	Seasongood & Mayer.	Bankers.	30 E. Third st.
Schwill, F. A.		Public Weigher	S. W. cor. Third and Walnut sts.
Sears, J. M.	James R. Haile & Co.	Commission Produce.	Room 21, 9-15 E. Third st.
Seasongood, Adolph J.	with Albert Schwill & Co.	Bookkeeper	Room 21, 9-15 E. Third st.
Seasongood, Alfred	A. Senior & Son.	Whisky	Foot of Lawrence st.
Seasongood, Lewis.	A. Senior & Son.	Coal and Feed.	39 Walnut st.
Secrist, R. E.	W. H. Settle & Co.	Pork and Beef Packers.	Chicago, Ills.
Seeger, Charles W.	J. A. Severet & Co.	Attorneys at Law.	Mitchell Building.
Seehausen, Oscar J.	Peck & Shaffer.	Grain	Mitchell Building.
Senior, Edward.		Attorneys at Law.	Madisonville, O.
Senior, Max.		Provisions.	32 E. Front st.
Settle, William H.	Stallo, Richard & Shaw		30 Atlas Bank Building.
Severet, John Albert.	Shaw, Irwin & Co.		St. Johns, O.
Shaffer, Frank H.	Shaw, Charles H.		141 E. Fourth st.
Shaw, Carleton L.	Shaw, George A.		9 W. Second st.

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
3374	Shields, Joseph.	J. Shields & Co.	Whisky Brokers.	226 Main st.
3185	Shillito, John S., <i>Cont'g Agent</i> .	C. H. & D. R. R. Co.	Wholesale and Retail Dry Goods.	S. W. cor. Fourth and Vine sts.
790	Shillito, Stewart.	The John Shillito Co.	Wholesale Grocers.	Race, Seventh and Shillito Place.
1183	Shinkle, Bradford.	The Shinkle-Wilson-Kreis Co.	Wholesale Grocers.	S. E. cor. Front and Vine sts.
3380	ShIPLEY, Edward E.	Bonsall & Shipley.	Insurance.	9-15 E. Third st.
500	Short, F. H.	C. H. & D. R. R. Co.	Secretary and Treasurer.	Carew Building.
1100	Short, George M.		Wholesale and Retail Grocer.	410 E. Pearl st.
4059	Shutterly, D. B.		Coal Gauger.	N. W. cor. Front and Broadway.
3314	Sicking, J. B.		Feed Store.	703 Hunt st.
2840	Silverman, Joseph.	Joseph Silverman & Co.	Wholesale Liquors.	242 Main st.
4083	Silverson, Charles.	The Gerke Brewing Co.	Vice-President.	S. E. cor. Plum and Canal sts.
636	Simon, Israel M.	L. M. Simon & Co.	Bankers and Brokers.	36 E. Third st.
3384	Simpson, F. H.	R. Simpson & Sons	Life Insurance.	2 Pike Building.
2576	Simpson, William T.	American Tinplate Co.	General Manager State of Ohio.	Riverside, City.
4322	Skinner, Edgar C.	Washington Life Insurance Co.	Canned Goods.	24 Carew Building.
3308	Skinner, Robert T.	Skinner & Loudon.	Live Stock Commission.	Court and Sycamore sts.
2290	Slimer, George, Jr.		Provisions and Flour.	John and Livingston sts.
3712	Slusser, William A.		Commission, Grain and Salt.	123 E. Second st.
673	Smith, Albert E.	A. E. Smith & Co.	Coal.	9 Chamber of Commerce Bldg.
3183	Smith, Austin M.	Marmet-Smith Coal and Mining Co.	Secretary.	601 Neave Building.
2429	Smith, Charles H.		Manufacturing Confectioners.	United Bank Building.
3379	Smith, Edwin F.	The Sanitary Extracting Co.	Manufacturing Confectioners.	18 Chamber of Commerce Bldg.
2821	Smith, Fred. A.	The H. D. Smith Co.	Comptroller.	206-210 Main st.
3752	Smith, Harrison D.	The H. D. Smith Co.	Consult'g and Contract'g Engineer.	206-210 Main st.
367	*Smith, Henry W.	The Charles Brown Grocery Co.	Real Estate and Loans.	
2704	Smith, Robert J.	National Lead Co.	Miners and Shippers of Coal.	
3877	Smith, Robert McF.		Brewers.	
4	*Smith, Thomas G.		Commercial Agent.	
3635	Smith, Thomas G., Jr.	W. W. Smith & Son.	Salesman.	17 E. Second st.
418	Smith, William W.	Adam Smyrl & Co.	President.	S. W. c. Seventh and Freeman av.
2026	Smyrl, Adam.	Snowdon, Gould & Co.	Shirt Manufacturer.	11 Hammond Building.
3208	Snowdon, C. L.	J. G. Sohn & Co.	Distillers.	S. E. cor. Fifth and Walnut sts.
701	Sohn, J. Edward	J. G. Sohn & Co.	Gas Works Builders.	32 Chamber of Commerce Bldg.
700	Sohn, William S.	Central of Ga. Railway Co.	Manager, Lubricating Oil Dept.	Brownsville, Pa.
4290	Solar, George T.	with J. & F. Schroth Packing Co.		250 W. McMicken ave.
1732	Sommers, S.	Victor Safe and Lock Co.		250 W. McMicken ave.
4191	Spills, John F.	W. P. Squibb & Co.		42 Carew Building.
3383	Spivey, Thomas S.	The Stacey Manufacturing Co.		12 Carew Building.
2157	Sprague, E. T.	with Standard Oil Co.		Camp Washington, City.
3616	Squibb, William P.			Ninth and Broadway.
2823	Stacey, William.			7 Wiggins Block.
3446	Stanley, Ethan B.			Lawrenceburg, Ind.

755	Stanley, Horace J.	Houston, Stanwood & Gamble.	Civil Engineer.	N. E. cor. Eight and Plum sts.
3844	Stanwood, James B.	Cincinnati Street Railway Co.	Engine Builders.	Covington, Ky.
1153	*Stanwood, Theodore.	The Stearns & Foster Co.	Purchasing Agent.	N. W. cor. Fifth and Walnut sts.
2861	Starr, Alonzo G.	Stephens & Lincoln.	Manfrs. of Wadding and Batting.	114-120 E. Canal st.
1248	Stearns, Edwin R.	Estate of Wm. Stephenson.	Attorneys at Law.	First National Bank Building.
1797	Stephens, Charles H.	The Cincinnati Daily Bulletin.	Executor.	133 Longworth st.
3047	Stephenson, Arthur.	Straus & Stern.	Proprietor.	N. E. cor. Third and Main sts.
2932	Stephenson, R. B.	Purtlebaugh Mineral Spring Co.	Commission, Live Stock.	Cincinnati Union Stock Yards.
736	Stern, Jacob.	S. J. Stevens & Co.	Capitalist.	600 E. Third st.
20	Stettinius, John L.	The Bradford Mill Co.	Resident Manager.	28 Fountain Square.
4324	Stevens, Edwin.	The John Shillito Co.	Commission.	37 Walnut st.
2257	Stevens, S. J.	Louis Stix & Co.	Real Estate.	64 Mitchell Building.
3129	Stewart, Charles, Jr.	City and Suburban Telegraph Ass'n.	Coal.	Eighth and Evans sts.
3859	Stewart, Elwood A.	T. B. Stone Lumber Co.	Wholesale and Retail Dry Goods.	Race, Seventh and Shillito Place.
1246	*Stewart, Jacob R., <i>President.</i>	Straus & Stern.	Dry Goods.	S. W. cor. Third and Race sts.
4032	*Stimson, Albert M.	Old "76" Distilling Co.	Telephone.	Telephone Building.
857	Simmon, Earl W.	The Strobbridge Lithographing Co.	Broker, Provisions and Oil.	Room C, Chamber of Commerce.
2069	Stix, Nathan.	with Dominick & Dickerman.	Hardwood Lumber.	72 & 73 Mitchell Building.
1748	Stone, George N., <i>Gen'l Manager.</i>	J. J. Sullivan & Co.	Attorney at Law.	First National Bank Building.
280	Stone, John E.	John Swasey & Co.	Commission, Live Stock.	Cincinnati Union Stock Yards.
250	Stone, Thomas B.	Eagle White Lead Co.	Importer of Cigars.	9 E. Fourth st.
2036	Storer, Bellamy.		Secretary and Treasurer.	816 W. Ninth st.
735	Straus, Henry.		President.	119 Sycamore st.
3031	Straus, Ferdinand.		Bankers and Brokers.	108-118 W. Canal st.
1981	Strieker, Charles F.		Insurance Agent.	384 Walnut st.
504	Strobridge, Hines.		Livery and Undertaking.	30 E. Third st.
2886	Stueve, Samuel E. E.		Real Estate.	421 Central ave.
3978	Sturm, Simon.		Insurance Agents.	208 W. Ninth st.
1753	Sullivan, J. J.		President.	139 E. Third st.
3571	Sullivan, John.		Superintendent.	1020-1030 Broadway.
4036	Swasey, John.			
3727	Swift, John B.			
3047	Swift, Thomas T.			
4242	Tafel, Gustav.	Cincinnati Times-Star Co.	Mayor of Cincinnati.	Mayor's Office, City Hall.
371	Taft, Charles P., <i>President.</i>	Taylor & Co.	Grain.	N. W. cor. Sixth and Walnut sts.
4312	Taylor, Alfred B.	Eagle White Lead Co.	Secretary and Treasurer.	33 Carlisle Building.
3548	Taylor, J. Gordon.	Rockwood Pottery.	Manager.	1020-1030 Broadway.
51	Taylor, William W.	Telker & Dunker.	Produce Commission.	Mt. Adams, City.
3986	Telker, Hermann.	Seaboard Air Line R. R.	Health Officer.	118 E. Court st.
4130	Tenney, W. A. R.	C. Jutte & Co.	Commercial Agent.	City Hall.
4271	Terhune, B. S.	Bonfort's Wine and Spirit Circular.	Coal.	5 Fosdick Building.
3757	Theis, George W.		Local Manager.	Pittsburgh, Pa.
4318	Thomas, F. P.		Teas, Baking Powder, etc.	N. E. cor. Pearl and Main sts.
4285	Thomas, William W.			N. W. cor. Third and Broadway.

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
3249	Thompson, Charles F.	M. D. Thompson & Co.	Provisions and Flour.	Pleasant Ridge, O.
149	Thompson, M. D.	Thoms & Breneman	Investments	6 Chamber of Commerce Bldg.
741	Thoms, J. C.	Anheuser-Busch Brewing Co.	Soliciting Agent.	9-15 E. Third st.
3250	Thurner, Justus	Law's Insurance Agency	Secretary	Third st. and Eggleston ave.
3665	Thurnauer, Charles M.	Southern Ohio Loan and Trust Co.	Contracting Agent	9 E. Third st.
4203	Timmerman, Henry T.	C. C. C. & St. L. Ry. Co.	Feed and Coal.	United Bank Building.
3769	Todd, Mac S.	.....	Coal.	1 & 2 Chamber of Commerce.
4105	Todd, Miles J.	.....	General Agent.	Room 1, 411 Vine st.
4176	Toepke, William	.....	Feed and Coal.	Oakley, O.
3190	Told, Peter E.	.....	Coal.	Vevay, Ind.
4332	Tomlinson, Charles W.	B. & O. S. W. Ry.	General Agent.	S. E. cor. Fourth & Vine sts.
1665	Tompkins, Garretson	H. Weber & Co.	Feed and Grain.	Madisonville, O.
1698	Topnoeller, Barney	Carnegie Steel Co. (Limited).	Iron and Steel (Agent).	Cumminsville, City.
3353	Totten, W. H. D., Jr.	Wm. E. Townley & Co.	Lumber.	Neave Building.
3849	Townley, William E.	I. Trager & Co.	Wholesale Liquors	818 W. Sixth st.
3367	Trager, Isidore	.....	Coal Dealer.	325 Sycamore st.
2370	Trapp, John	.....	Cigar Box Manufacturer.	Dayton, Ky.
1515	Trost, Samuel W.	.....	Manufacturing Clothiers.	12-16 W. Canal st.
3790	Trounstone, Samuel H.	Trounstone Bros. & Co.	Coal and Coke.	1-5 E. Third st.
3297	Trum, August	with The Marnet Company.	Secretary	1351 Myrtle ave.
4294	Trum, August B.	The Tudor Boiler Mfg. Co.	President	S. W. c. Water st. and Central av.
3925	Tudor, Clifford M.	The Tudor Boiler Mfg. Co.	Superintendent.	716 E. Pearl st.
1744	Tudor, Hugh	Ohio Valley National Bank.	Wholesale Liquors	716 E. Pearl st.
709	Tudor, O. H., <i>Cashier</i>	The Tudor Boiler Mfg. Co.	.....	17 E. Third st.
3395	Tudor, Milton J.	Frank G. Tullidge & Co.	.....	716 E. Pearl st.
1370	Tullidge, Frank G.	.....	.....	111 E. Fifth st.
4181	Tumy, Walter H.	.....	.....	.....
3580	Tuohy, Joseph W.	.....	.....	.....
1	Urner, Henry C.	Little Miami R. R.	Secretary and Treasurer.	First National Bank Building.
4210	Vance, John L.	.....	Newspaper Publisher.	Gallipolis, O.
4239	Van Cleef, Charles H.	.....	Salt.	15 Chamber of Commerce Bldg.
889	Van Cleef, C. M.	.....	Grain Commission	42 Chamber of Commerce Bldg.
2800	*Vandegrift, George A.	.....	.....	.....
4084	Van Epps, John S.	Delaware & Hudson Canal Co.	Anthracite Coal (Sales Agent).	Cleveland, O.
3766	Van Hart, William A.	J. Van Hart & Sons	Teamsters and Tanbark Dealers.	N. W. cor. Elm and Water sts.
1386	Van Hise, W. L.	.....	Grain, etc.	West Chester, O.
1379	Van Horn, S. A.	.....	Grain and Hay Commission	Lawrenceburg, Ind.
770	Van Leunen, J. W.	Van Leunen & Co.	Hay, Grain and Flour	5 Chamber of Commerce Bldg.
771	Van Leunen, Peter	Van Leunen & Co.	.....	5 Chamber of Commerce Bldg.

2743	Van Loo, Leon.....	The H. Van Nes Export Co.....	President.....	945 W. Court st.
958	Van Nes, Hans.....	Cin'ti Soda Water & Ginger Ale Co.....	President.....	213 Sycamore st.
4213	Verhage, Henry A.....	The American Steel Roofing Co.....	Manfrs. Iron and Steel Roofing, etc.	1015 Broadway.
4211	Verity, Frank M.....	The J. H. Hermesch Co.....	Commission, Hay and Grain.....	230 E. Front st.
763	Vieth, George.....	Goyert & Vogel.....	Flour, Grain and Commission.....	11 & 13 Main st.
343	Vogel, Henry.....	Jacob Vogel & Son.....	Pork Packers.....	49 Walnut st.
1108	Vogel, Jacob, Sr.....	Jacob Vogel & Son.....	Pork Packers.....	2604 Colerain ave.
1107	Vogel, Jacob, Jr.....	D. Hoppe & Co.....	Commission, Produce.....	2604 Colerain ave.
1283	Vonderaue, G. H.....	S. R. Voorhees & Co.....	Flour and Feed Mills.....	31 Walnut st.
3647	*Von Holle, Joseph.....	Union Savings Bank & Trust Co.....	Grain Commission.....	1513 & 1515 Harrison ave.
2239	Von Holle, Theodore.....	August Vos & Co.....	Vice-President.....	50 Chamber of Commerce Bldg.
1866	Voorhees, S. R.....	H. W. Voss & Co.....	Stock, Bond and Note Brokers.....	Vine and Baker sts.
3444	Voorheis, Albert B.....		Commission, Whisky.....	18 E. Third st.
2270	Vos, August.....			N. E. cor. Pearl and Main sts.
2798	Voss, Henry W.....			
3918	Wachs, William C.....	German National Bank.....	Assistant Cashier.....	S. E. cor. Third and Walnut sts.
3806	Wagner, Christopher P.....	C. F. Wagner & Co.....	Oils.....	126 Sycamore st.
2454	Wagner, Henry.....	Queen City Oil Co.....	General Manager.....	330 W. Pearl st.
4172	Waldo, Charles G.....	C. H. & D. R. Co.....	Traveling Freight Agent.....	Carew Building.
3323	Walker, Cliff S.....	C. H. & D. R. Co.....		Carew Building.
1749	*Walker, W. P., Jr.....	James Walsh & Co.....	Real Estate and Auctioneer.....	Room D, Chamber of Commerce.
983	Wallace, James B.....	James Walsh & Co.....	Distillers.....	206 Pike Building.
825	Walsh, Dennis F.....	James Walsh & Co.....	Baking Powder.....	206 Pike Building.
1887	Walsh, Nicholas J.....	Walton Iron Co.....	Architectural Iron Work.....	110 E. Third st.
4264	Walton, Virgil W.....	George W. Ward & Co.....	Commission, Cordage, Sheet, etc.....	524 & 526 E. Fifth st.
2015	Walton, J. F.....	Paxton, Warrington & Boutet.....	Superintendent of Parks.....	224 E. Front st.
1342	Ward, George W.....	J. W. Sibley & Co.....	Attorneys at Law.....	City Hall.
399	Warder, R. H.....	B. W. Wasson & Co.....	Transfer.....	United Bank Building.
2673	Warner, A. M.....	Brown & Watson.....	Provisions.....	35 W. Pearl st.
1879	Warrington, J. W.....	H. Weber & Co.....	Commission, Grain.....	119 E. Third st.
2273	Warth, Marcus.....	With John Schneider, Son & Co.....	Insurance.....	49 Chamber of Commerce Bldg.
278	Washington, W. H.....	The Sam. W. Weidler Co.....	Manufacturer of Refrigerators.....	3 Masonic Temple.
621	Watson, B. W.....	Mook & Weil.....	Feed and Grain.....	326 Main st.
4340	Watson, Ralph E.....	Weil, Cannon & Co.....	Mill and Bakery.....	Cumminsville, City.
2589	Wayne, Joseph W.....	National Distributing Co.....	Commission, Flour and Feed.....	1422 & 1424 Walnut st.
945	Weber, Henry.....	Washington Insurance Co.....	Cashier.....	938 W. Sixth st.
3943	Weichselder, Philipp.....		Dealers in Horses and Mules.....	Twelfth and Vine sts.
3993	Weidler, Samuel W.....		Commission.....	1645 & 1647 Central ave.
4085	Weil, Edward F.....		Commission.....	106 E. Front st.
4085	Weil, Isaac A.....		Whiskies (President).....	106 E. Front st.
2929	Weil, Meyer.....		Secretary.....	300 Main st.
3001	Weil, Samuel, Jr.....			18 E. Third st.
3017	*Weir, Fred, C.....			
2437	Weiskopf, Levi.....			
4004	Weiss, Edward F.....			

* Deceased.

MEMBERS OF THE CINCINNATI CHAMBER OF COMMERCE AND MERCHANTS' EXCHANGE.—CONTINUED.

No.	NAME.	FIRM.	BUSINESS.	LOCATION.
3823	Weitkamp, Ernst	E. Weitkamp & Co.	Commission, Produce and Grain	43 Walnut st.
866	Weller, Jacob	The J. Weller Co.	Canned Goods, Preserves, Pickles	S. W. cor. Second and John sts.
948	*Wells, Samuel	P. C. C. & St. L. Ry. Co.	Local Agent (Provisions)	4 E. Fourth st.
4256	Welply, John W. <i>Contracting Agt.</i>	Nelson Morris & Co., Chicago	Vice-President	Front and Walnut sts.
965	Werk, Casimer	Herancourt Brewing Co.	Secretary	1400 Harrison ave.
2287	Werner, Fred J.	The John Hauck Brewing Co.	Grain and Feed	Central ave. and Dayton st.
3437	Wess, John G.	G. J. Wess & Sons	Live Stock Commission	Winton Place, O.
1227	West, Robert H.	Long, West & Co.	Wholesale Liquors	Cincinnati Union Stock Yards.
4183	Westheimer, Morris F.	Ferdinand Westheimer & Sons	Secretary and Treasurer	11 E. Pearl st.
907	Wetterer, Ferdinand J.	Germania Brewing Co.	President	2125 Central ave.
1040	Wetterer, John	Germania Brewing Co.	Coal	2125 Central ave.
3044	Whetstone, H. C.	Chesapeake & Ohio Ry. Co.	Freight Traffic Manager	Columbia (Station C), City
4038	Whitaker, F. M.	Canadian Pacific Dispatch	Agent	Big Four Office Building.
3416	White, Burton R.	D. A. White & Co.	Coffees, Sugars and Syrups	Room D. Chamber of Commerce.
1163	White, David A.		Distillers' Agent	123 E. Second st.
1404	White, G. G.		Grain	325 Broadway.
1816	White, John	Fourth National Bank	Commission	46 Walnut st.
4261	White, M. M., <i>President</i>	H. S. Whittaker & Co.	Printing Inks, etc.	Third and Walnut sts.
1052	Whittaker, H. S.	The Ault & Wiborg Co.	Hardwood Lumber	42 Chamber of Commerce Bldg.
1939	Wiborg, Frank B.	Wiborg, Hanna & Co.	Bookkeeper	Foot of New st.
3231	Wiborg, H. P.	Newport Mutual Fire Insurance Co.	Vice-Prest. and General Manager	Gest st. and McLean ave.
677	Widrig, T. A.	George Wiedemann Brewing Co.	Directory Publishers	Newport, Ky.
3671	Wiedemann, Charles	with Hernan Lackman Brewing Co.	Brass and Iron Specialties	Newport, Ky.
2172	Wienan, B. R.	Commercial Tribune Co.	Malsters	823 W. Sixth st.
472	Wildor, S. H.	Williams & Co.	Grain and Live Stock	N. E. cor. Fourth and Race sts.
2278	Williams, A. V.	The Lunkenheimer Co.	Clerk	208 Longworth st.
4207	Williams, David T.	Kyle & Williamson	Agent	213-219 E. Eighth st.
1581	Williams, Israel	Kyle & Williamson	Miller and Banker	Hamilton, O.
632	Williamson, Augustine E.	Central Railway and Bridge Co.	Receiver, First National Bank	Bethany, O.
3465	Williamson, Frank	Blue Ridge Dispatch	General Manager	Monroe, Butler Co., O.
140	Williamson, John A.		Wholesale Grocers	Newport, Ky.
3468	Williamson, Lawrence		Secretary	45 Perin Building.
4231	Willis, George W.	Ice Delivery Co.	Secretary	S. E. cor. Front and Vine sts.
3331	Willson, William D.	The Shinkle-Wilson-Kreis Co.	Paper Dealers	S. E. cor. Front and Vine sts.
3509	Wilshire, George P.	The Shinkle-Wilson-Kreis Co.		Room A, Chamber of Commerce.
84	Wilson, Joseph W.	Cin. B'd of Trade & Bur. of Transp'n		Plum and Liberty sts.
750	Wilson, Benjamin C.	Windisch-Muhlhauser Brewing Co.		318 & 320 Elm st.
749	Wilson, Charles E.	Diem & Wing Paper Co.		
3484	Wilson, E. P.			
3508	Windisch, Charles F.			
4064	Wing, Charles B.			

3875	Winnes, George W.	National Starch Mfg. Co.	Accountant	118 & 120 E. Second st.
4104	Winterbottom, William J.	Cincinnati Transfer Co.	Hides, Wool, Furs, etc.	Mitchell Building
4276	Wise, Ludwig.	L. Wise & Bros.	Superintendent	36 Main st.
1964	Wise, Robert W.	Memphis, New Or. & Cin ti Pkt. Co.	President	222 & 224 Public Landing.
2861	Wisser, Gustav G.	The Witt Cornice Co.	Provision Broker	Chamber of Commerce.
3555	Witt, George C.	with J. W. Biles & Co.	Groceries, Feed, etc.	Eighth and Broadway.
3970	Wittekind, Abe.	Henry Wolter & Co.	Commission	218 & 220 E. Fourth st.
1316	Woesten, John.	A. G. Wood & Co.	Grain	48 Chamber of Commerce Bldg.
11	Wolf, Joseph H.	Pacific Coal Co.	Coal	2163-2167 Central ave.
2847	Wolter, Henry	Pacific Coal Co.	Coal	N. W. cor. Front and Walnut sts.
3060	Wood, Adolph	C. H. & D. R. Co.	President	San Bernardino, Cal.
3060	Wood, Albert G.	The Chatfield & Woods Co.	Paper Dealers	Court and Broadway.
3132	Wood, William J.	The Chatfield & Woods Co.	Grain Commission	Pittsburgh, Pa.
3376	Woodford, M. D.	Ohio Valley National Bank	Attorney at Law	Pittsburgh, Pa.
1470	Woods, John S.	D. H. Baldwin & Co.	Pianos and Organs	Carew Building.
1469	Woods, William	Henry Wunker & Son	Feed and Coal	347-351 W. Fourth st.
582	Woolcroft, John N.	Wyler, Ackerland & Co.	Wholesale Clothing	33 Chamber of Commerce Bldg.
476	Woolley, C. W.	Samuel Wymond Cooperage Co.	Real Estate	317 Pike st.
3609	Worthington, William		Superintendent	27 Wiggins Block.
1058	Wright, Clifford B.		President	17 E. Third st.
895	Wulfstange, Frank		Distiller	Covington, Ky.
3286	Wulsin, Drausin		Attorney at Law	25 Wiggins Block.
940	Wulsin, Lucien		Pianos and Organs	142 & 144 W. Fourth st.
4106	Wunker, Henry		Feed and Coal	Carthage, O.
3451	Wyer, Louis		Wholesale Clothing	9-13 W. Third st.
2568	Wymond, Randall J.			Aurora, Ind.
4068	Yost, John C.			405 Lincoln Inn Court.
4241	Zeckendorf, Alois	Riverside Mating and Elevator Co.		Riverside, City.
2594	Zehler, George	The Geo. Zehler Provision Co.		1705 Logan st.
3568	Ziegler, Louis E.	The John Van Range Co.		419 Elm st.
3141	Ziegler, Henry M.	Dorsel & Zimmerman		3111 Woodburn ave.
4313	Zimmerman, C. C.	C. H. & D. R. Co.		1108 Monmouth st., Newport, Ky.
218	Zimmerman, Eugene			Carew Building.
3517	Zumstein, Frank C.			Post-office Building.
3119	Zumstein, John			25 Pickering Building.

* Deceased.

HONORARY MEMBERS.

Names.	When Elected
HENRY PROBASCO.....	1871
MILES GREENWOOD*.....	1873
JOHN H. GERARD*.....	1874
DAVID SINTON.....	1875
REUBEN R. SPRINGER*.....	1876
JAMES F. TORRENCE*.....	1877
GEORGE GRAHAM*.....	1878
CHARLES W. WEST*.....	1879
WILLIAM PROCTER*.....	1880
JOSEPH LONGWORTH*.....	1881
JOHN SHERMAN.....	1883
WILLIAM GLENN*.....	1884
GEORGE H. PENDLETON*.....	1886
JOSEPH RAWSON*.....	1887
HENRY C. UERNER.....	1888
SAMUEL F. COVINGTON*.....	1889
JOHN A. GANO*.....	1890
CHARLES DAVIS.....	1891
JOHN KENNETT*.....	1892
RICHARD SMITH*.....	1893
JULIUS FREIBERG.....	1894
A. E. ARMSTRONG.....	1895
DAVID GIBSON*.....	1895
REUBEN A. HOLDEN.....	1897
PARIS C. BROWN.....	1898

*Died.

JOHN H. GERARD.....	February 10, 1876	JAMES F. TORRENCE.....	September 28, 1887
GEORGE GRAHAM.....	March 1, 1881	GEORGE H. PENDLETON....	November 24, 1889
JOSEPH LONGWORTH.....	December 30, 1883	SAMUEL F. COVINGTON....	December 26, 1889
WILLIAM PROCTER.....	April 4, 1884	JOSEPH RAWSON.....	November 15, 1891
CHARLES W. WEST.....	September 21, 1884	DAVID GIBSON.....	February 7, 1897
REUBEN R. SPRINGER.....	December 10, 1884	JOHN A. GANO.....	January 15, 1898
MILES GREENWOOD.....	November 6, 1885	RICHARD SMITH.....	April 22, 1898
WILLIAM GLENN.....	July 17, 1887	JOHN KENNETT.....	December 12, 1898

In Memoriam.

BENNEVILLE KLINE, . . .	Aged 77.	Died January 3, 1898
JULIUS J. BANTLIN, . . .	" 71.	" January 12, 1898
JOHN A. GANO, . . .	" 72.	" January 15, 1898
CHRISTIAN KLEIN, . . .	" 69.	" January 29, 1898
WILLIAM S. MELLEN, . . .	" 55.	" February 5, 1898
ALBERT M. STIMSON, . . .	" 65.	" March 8, 1898
A. R. LAFFERTY, . . .	" 60.	" March 26, 1898
BERNARD HEUCKMANN, . . .	" 61.	" March 29, 1898
FREDERICK SCHMIDT, . . .	" 51.	" April 19, 1898
RICHARD SMITH, . . .	" 76.	" April 22, 1898
CHARLES L. COLBURN, . . .	" 76.	" May 13, 1898
CHARLES F. MUTH, . . .	" 65.	" May 16, 1898
W. P. WALKER, JR., . . .	" 48.	" May 25, 1898
MAY FECHHEIMER, . . .	" 51.	" May 28, 1898
JOHN A. WILLIAMSON, . . .	" 72.	" July 7, 1898
PETER W. SCHNEIDER, . . .	" 57.	" July 9, 1898
WARREN RAWSON, . . .	" 57.	" July 12, 1898
LEWIS MAYER, . . .	" 60.	" July 13, 1898
FRED. H. ALMS, . . .	" 59.	" July 25, 1898
GEORGE E. CURRIE, . . .	" 66.	" August 13, 1898
F. A. SCHWILL, . . .	" 61.	" September 28, 1898
JAMES C. RICHARDSON, . . .	" 64.	" October 1, 1898
WILLIAM H. SHOENBERGER, . . .	" 63.	" October 16, 1898
SAMUEL PRITZ, . . .	" 62.	" October 17, 1898
JULIUS DEXTER, . . .	" 58.	" October 21, 1898
REUBEN B. BROOKS, . . .	" 57.	" October 22, 1898
JOSEPH B. S. EVANS, . . .	" 43.	" November 10, 1898
EMILE SCHMITT, . . .	" 48.	" November 13, 1898
CHARLES HOEFINGHOFF, . . .	" 65.	" November 20, 1898
JOHN KENNETT, . . .	" 89.	" December 12, 1898
ROBERT M. ARCHIBALD, . . .	" 46.	" December 30, 1898

MEMORIAL REPORTS.

The following reports of Committees of the Cincinnati Chamber of Commerce appointed to prepare memorial papers on the death of members, were adopted by the Association in general session, and are printed by order of the Board of Directors:

JOHN BARRETT. DIED DECEMBER 29, 1897.

The silent reaper has again invaded our ranks, for upon December 29, 1897, JOHN BARRETT, aged 58, for many years a member of this body, was taken from our midst.

CAPTAIN BARRETT was a man of marked characteristics, possessing indomitable will, unbounded energy, and untiring perseverance; just such requisites as insure success in his chosen business, for he has been intimately connected with the River interests of our city for more than thirty-three years.

During that time he has overcome many reverses, and, at his death, stood a successful and respected member.

His genial, happy, cherry disposition and large liberality endeared him to many friends.

For months he has borne with patience and fortitude a painful illness, and death came, a blessed relief, finding him ready and willing to go.

WHEREAS, JOHN BARRETT, an honored member, has been taken from this life, be it

Resolved, That the sympathy of this Chamber be extended to his bereaved family, and a copy of this resolution be spread upon the records of the Chamber.

PARIS C. BROWN,	}	<i>Committee.</i>
R. W. WISE,		
VAL. P. COLLINS,		
S. W. BARD,		
P. R. BUDD,		

JOHN A. GANO. DIED JANUARY 15, 1898.

JOHN A. GANO was born at Middletown, Butler County, Ohio, May 1, 1826, and died at Cincinnati, January 15, 1898.

In early life Mr. GANO began his identity with the activities of Cincinnati, which were continued throughout his long career. With the advance of years he became especially prominent among those who manifested interest in questions affecting the public welfare—morally and materially—and, in all this effort and service for the general good, there was lacking that manifestation of self-advancement which so often marks the career of those who gain distinction. He was ever modest in such matters, but firm and unyielding in adherence to convictions, and in actions which, in his judgment, were calculated to modify existing evils or to bring about needful measures for the betterment of conditions.

As a member of the Chamber of Commerce, Mr. GANO displayed zealous interest from the first, which was continued to the last. He was elected a member of the Board of Officers in 1860, as Secretary, which position he held for seven yearly terms. He was elected President in 1867, and for two succeeding terms. Thus, for ten consecutive years, he had prominent official identity with the Chamber of Commerce, which would have been prolonged but for his insistence that others should be called to such position of honor. In 1890, by unanimous vote of the Board of Directors, he was elected an honorary member, which distinction has been accorded to but few persons.

Mr. GANO's interest in public questions naturally found him in sympathy with the movement which brought into existence the National Board of Trade, an organization which was founded thirty years ago, and the influence of which has been of importance in high degree in agitation and inauguration of beneficial public measures. During a large part of this time he was the chosen Vice-President of that organization, representing the Cincinnati Chamber of Commerce, which honor he enjoyed at the close. Mr. GANO's dignity of bearing, his modesty of manner, his intelligent understanding of the significance of public questions, his tireless service in the interest of general good, his firmness and fearlessness of speech where occasion called for such action, gave him a special prominence in the deliberations of the National Board of Trade, and, in his relationships through the Chamber of Commerce and otherwise, he was especially influential concerning affairs locally and generally.

In this brief record of the good work so long continued of our deceased member, it is not practicable to introduce in detail the various measures with which he was especially identified. It is fitting, however, to allude to the wisdom and influence which he displayed when, in 1869, Professor Cleveland Abbe, then in charge of the Cincinnati Observatory, sought the aid of the Chamber of Commerce in an enterprise, contemplating the utilization of daily telegraphic information for forecasting weather conditions and changes. Mr. GANO, more than any other person, was influential in instituting measures at that time which gave this important application of science in the interest of human welfare a start, and which has reached a position among concerns recognized as in the highest degree of importance to mankind.

Mr. GANO's life was identified with various business interests in our community, among which was an influential relationship for a long term with one of the daily newspapers. He was called into service for the Government on some special commissions of high trust, but never aspired to or entertained political candidacy. In his personal relationship he was affable and cordial. In his charities, which were abundant, he was unostentatious. In his responses to appeals of the needy he was ever generous. Throughout his career, and in all his relationships, his life reflected in the highest sense fidelity to honorable methods, and its influence has been conspicuous for usefulness and encouragement to fellow men. As a member of the Chamber of Commerce, in which relationship we have been especially called upon to speak, his labors have been of great extent and scope, unselfish and continuous, imparting to our Association assistance and value, which has in no other instance been surpassed.

As a committee of the Chamber to give form to expression of tribute to our friend and fellow member, now removed from us, we ask that this report be placed upon the records of the Association, and that a copy be furnished the family of our deceased member, who have, in the fullest degree, our sympathy in the bereavement and loss which has overtaken them.

JAMES M. GLENN, WILLIAM N. HOBART, H. WILSON BROWN, M. KNAUL, LEVI C. GOODALE, THOMAS MORRISON, B. W. WASSON, C. B. MURRAY, A. HICKENLOOPER, C. M. HOLLOWAY,	}	Committee.
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CHRISTIAN KLEIN. DIED JANUARY 29, 1898.

CHRISTIAN KLEIN, who for thirty-five years was an honored member of this body, is no more.

His mysterious death is particularly distressing and fills our hearts with grief and sadness.

We can only record briefly a memorandum of the fact, and in performing that sad duty, we ask you remaining members to hear a few words referring to his many virtues, and to his kind and cheerful disposition, and join with us in extending to his estimable wife and members of his family, such consolations as we can so feebly express.

Death is sad under all circumstances, but when sudden or surrounded with mystery, it awakens the keenest sympathy.

While he had reached nearly three score and ten years, the usual time allotted to man, yet to be stricken down by the hands of an assassin, makes his end more than ordinarily distressing.

If faults he had, let them rest in his grave with all of him that is mortal, remembering only his virtues, his genial disposition, his energy and perseverance, his fraternal feeling for his fellow man, and his affection for his family.

CHRISTIAN KLEIN was born in Germany, September 16, 1828, and died on January 29, 1898. He came to Cincinnati in July, 1854. Having learned the trade of a miller in Germany he began the milling business here in 1860, and continued in same until his death, but for the past few years had not been in daily attendance on the floor of the Chamber, leaving the active duty to his sons.

CHRISTIAN KLEIN was one of the sturdy pioneers of this city, who are fast passing away; a man whose word could be taken at all times, and one who would spurn to do an unkind act. Peace to his ashes.

Resolved, That a copy of the above be spread upon the minutes of this Chamber, and one sent to his bereaved family.

J. W. FISHER,	} Committee.
GROVE J. PENNEY,	
CHAS. S. MAGUIRE,	
B. W. WASSON,	
B. W. GALE,	
HERMAN GOEPPER,	
GEO. C. SCHNEIDER,	

RICHARD SMITH. DIED APRIL 22, 1898.

RICHARD SMITH began his identity with the affairs of the Cincinnati Chamber of Commerce early in its history. The energy and talent which he displayed gave important impulse to the aims and objects of the organization. With the widening of scope and extension of influence of the work of the Chamber his force of character found effective development. Not only did his genius impress itself upon the commercial affairs promoted by the Association, but in its deliberations upon broad public questions he became conspicuous, and with rare exceptions was identified with the winning side in controversy or discussion. He had the happy faculty of getting quickly into the merit of a question, and by close, concise, logical reasoning and the application of sound common sense carried conviction in his arguments. Where there was occasion for framing resolutions expressive of the sentiment of the Chamber in important matters he was almost uniformly placed on the committees, and with great frequency was made Chairman. The many strong, clear, forcible actions which the records show as occurring during his intimate connection with the affairs of the Chamber largely reflect his work and ability.

When Adam Peabody was appointed Superintendent of the Chamber of Commerce in 1846, RICHARD SMITH became his assistant, and in 1849 he was chosen Superintendent, which position he held for five years, during which term he also served as Secretary, continuing in the latter office for six succeeding years. In 1850, while Secretary and Superintendent, he took an active part in securing the incorporation of the Association, and for many years past has been the only surviving one of the incorporators of the Cincinnati Chamber of Commerce and Merchant's Exchange, which received its charter under an Act passed March 23, 1850. This event, forty-eight years ago, was ten years and five months subsequent to the organization of the Association, in October, 1839.

Of the many instances of important service in promotion of the interests and aims of the Chamber of Commerce in its committee work performed by RICHARD SMITH, a notable one was the negotiation with the Government in 1879 for possession of the site of the present home of the organization, which was secured on especially favorable terms, through efforts in which Mr. SMITH was personally prominent.

Beginning in newspaper service in commercial and financial affairs, RICHARD SMITH passed to the broader opportunities of political work, and became one of the most noted of western journalists—a position attained not so much by dash and brilliance in the use of language as for acuteness of perception and effective application of comment, attended with an ability to recognize conditions which counted for the advancement of public interests, and the use of plain, forceful, vigorous expressions in treatment of such matters. He was a prominent factor in shaping sentiment and encouraging actions in national affairs, and throughout all the display of power and attending successes was never personally boastful.

Not only was he recognized as a strong writer, but he displayed a knowledge and comprehension of the underlying principles governing business affairs which were brought into requisition in directing the concerns of the *Cincinnati Gazette*, during a long period. His important influence for the elevation of commercial interests and practices, for the promotion of educational measures, and for the better recognition of the truly religious sentiment, secured for the *Gazette* an exceptional reputation, and when this publication was consolidated with the *Commercial* this good work of RICHARD SMITH was continued in the newer surroundings.

In the early history of organization for securing associated press news Mr. SMITH took an active and conspicuous part, maintaining long identity in directing matters which the peculiar requirements of such an enterprise called for.

In the later years of his career Mr. SMITH held a position in the Board of Review and the Board of Supervisors, of this city, of which bodies he was President. He was a member of the latter-named board at the time of his death, and its President. He was elected an Honorary Member of the Chamber of Commerce in 1893.

RICHARD SMITH was an ardent supporter of measures which counted for the advancement, prosperity or the good name of Cincinnati. Perhaps no other citizen has had his individuality more distinctly impressed upon the progress of this city. His long life here has been one of industry, of untiring effort for the general good. Few citizens have been so eminently helpful to the community. The Chamber of Commerce, the City of Cincinnati and vicinity, the State, and the concerns of the country, owe much to RICHARD SMITH, for the wisdom, the independence of action, the persistent fidelity to demands in the interest of the public good, which so distinguished his career during a period of more than half a century. His death is a loss, in that it brings to an end his personal force, but his work has an enduring existence, which can not be removed by the passing of the individual who had identity in its performance and development.

RICHARD SMITH was born in Ireland, January 30, 1823. He came to this country in 1841, since which time his home and his activities have been at Cincinnati. He died at his residence in Clifton on the morning of April 22, 1898, in his seventy-sixth year.

Those to whom the deceased was near and dear have the fullness of sympathy in sorrows which separation by death implies—which sorrows will be softened by the solace which comes

from knowledge of the rich achievements in the interests of others which have marked the long life of unselfish, untiring work of him whose presence with us is now terminated.

On behalf of the Cincinnati Chamber of Commerce.

THOMAS MORRISON, CHARLES DAVIS, H. WILSON BROWN, MICHAEL RYAN, ALEXANDER McDONALD, A. HOWARD HINKLE, A. T. GOSHORN, HENRY PROBASCO, CHARLES B. MURRAY,	}	Committee.
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WILLIAM PERRY WALKER, JR. DIED MAY 25, 1898.

Born at Newport, Ky., September 3, 1850.

Died at Clifton Forge, Va., May 25, 1898.

Mr. WALKER's early life was spent in active connection with steamboat service, which then constituted Cincinnati's principal activity and source of prosperity. From the beginning he manifested signal ability and aptitude in all matters pertaining to public transportation.

In August, 1878, he entered upon active service with the Chesapeake and Ohio Railway. With the growth and prosperity of that corporation he was, until the end of his life, most conspicuously and usefully identified. Occupying successively positions of high trust and responsibility, he commanded alike the commendation of his superiors, the esteem of his associates, and the high respect of all with whom he came in commercial contact.

In social life, Mr. WALKER's high attributes of benevolent geniality were constantly in evidence.

In the gloomy days, when a pall rested upon Cincinnati by reason of unprecedented floods, Mr. WALKER's exertions in the relief of suffering were incessant and most efficient.

In his chosen fraternity of Masonry, evidences of confidence and esteem of his associates were manifest in his repeated elevation to posts of honor and distinction. As Past Eminent Commander of Covington Commandery No. 7, Knights Templar, 32d Degree Mason, and Past Master of Ceremonies Ohio Consistory, S. P. R. S., 32d Degree, and Past Chief Rabbi Syrian Temple, U. M. S., he was subjected to severest tests and never found wanting.

As a member of the Cincinnati Chamber of Commerce, his influence and energies were ever cast upon the side of progress. He was prominently identified with every movement looking to the promotion of the interests of Cincinnati; therefore, be it

Resolved, That in the death of WILLIAM PERRY WALKER, JR., Cincinnati loses a citizen of great promise, and the Chamber of Commerce a member of inestimable value.

That this tribute of his memory be spread upon the records of the Society, and that a copy of the same be furnished to his family, as an evidence of sincere sympathy in their irreparable loss.

A. H. MCLEOD, G. W. DAVIS, W. W. PEARBODY, H. LEE EARLY, W. B. MELISH, J. W. HOYT, E. P. WILSON,	}	Committee.
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PETER W. SCHNEIDER. DIED JULY 9, 1898.

PETER W. SCHNEIDER, an honored member of this body for sixteen years, died July 9, 1898. He was born in this city January 6, 1841.

Shortly after leaving college he engaged in the brewing business with his father, **L. SCHNEIDER**, and remained in the business until his decease, being associated with the firms of **Foss, Schneider & Brenner**, and **Foss & Schneider**, and the **Foss, Schneider Brewing Company**, as Secretary and Treasurer.

During all the years of his usefulness, he was an active and efficient member of the **Cincinnati Brewers' Association**, occupying at different times important offices therein, which he filled with the devotion to duty which characterized him in every position in his life to which he was called.

Mr. SCHNEIDER was a man of exceptional modesty of character, retiring in his disposition, and even-tempered in remarkable degree.

His instincts were kindly in all his relations in life, whether with his family or business associates, or the outer world. Aggressiveness was not a part of his nature.

His integrity was of that unswerving character that neither the hope of gain nor the temptations of reverses could cause him for a single moment to entertain the idea of injustice to his fellow men.

The highest type of manhood embodies personal purity, charity, love of family, devotion to duty, and a high sense of mercantile honor. Of such noble type was **PETER W. SCHNEIDER**.

C. H. KELLOGG, EDWARD GOEPFER, LOUIS HEHMAN, LEWIS ELSAS, F. A. SCHWILL,	}	Committee.
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WARREN RAWSON. DIED JULY 12, 1898.

In the passing away by death of **WARREN RAWSON** there has been removed from the **Cincinnati Chamber of Commerce** one whose long connection with the Association has been attended with constant identity with and devoted interest in such material affairs as furnish the occasion for such organizations, and which also represent the basis of growth and prosperity of a community.

Immediately upon the close of his school life, **WARREN RAWSON** entered upon an active business career, associated with his father, the late **JOSEPH RAWSON**. The sterling qualities of the parent, which ever governed for honorable and correct procedures in all business affairs, were a legacy which the young man received, by which he was under all conditions guided, and which served to distinguish his career to its close.

WARREN RAWSON was a man of industry, of intelligent comprehension of the liabilities and responsibilities of business enterprises, and, in his broad view of questions before him, he was neither over hasty in reaching conclusions, nor vacillating in position. He considered the bearings, planned the course to pursue, and entered earnestly upon the accomplishment of ends in view. He thus possessed and disclosed the elements of success in undertakings.

In 1874, he was elected to the responsible position of Treasurer of the **Cincinnati Chamber of Commerce**, and member of the Board of Officers. Although a comparatively young man at that time, his counsel in the various questions and controversies arising in the concerns of such an organization, was recognized by his associates with full respect for his grasp of conditions and fairness of decision. But official life had little of attraction for him. In fact, his quiet nature led him to decline from time to time the acceptance of such posts of honor. He was, however, called into service in the official boards of various corporations in which he was in-

terested. In 1893, he was elected President of the Cincinnati Union Stock Yard Company, and, as such official, became the General Manager of the concerns of this corporation, which position he held at his death. He entered earnestly upon the duties of the office, which were at times attended with difficulties and controversies calling for great wisdom of action. Having no wish to secure undue advantage of others, and prompted by a disposition to be fair to all sides, he made a record for himself in this difficult service which will be remembered by those who have known him, and have been under the influence of his executive operations, with great satisfaction and admiration.

WARREN RAWSON was born at Cincinnati, July 24, 1841, which city has been his home throughout his life. After having prepared for a college course of education in this city, he entered Harvard College, and, in 1861, graduated as an engineer from the Lawrence Scientific School of that institution. In the following year he became a member of the firm of J. Rawson & Son, in pork packing operations in this city, in which the senior member had been engaged since 1831. In 1865, he married Fannie Delphine Williams, of this city. He died on July 12, 1898, aged 57 years, his widow and eight children surviving him.

The undersigned committee of the Chamber of Commerce, in preparing this brief reference to the good and useful life that has thus untimely ended, recognize its value not only to the Association and the community, but especially to those to whom he was near and dear by kinship, and, on behalf of the membership of the organization here represented, is offered the fullness of sympathy which fellow men experience under such distresses.

THOMAS MORRISON, W. J. LIPPINCOTT, C. B. MURRAY, R. H. WEST, H. LEE EARLEY, F. A. ROTHIER, C. H. DATER,	}	Committee.
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FREDERICK H. ALMS. DIED JULY 25, 1898.

FREDERICK HERMAN ALMS was born in Cincinnati February 26, 1839, and died at his residence in this city at half-past eleven o'clock, Monday morning, July 25, 1898, of heart failure.

The news of his death spread rapidly and the announcement was a great shock to his many friends and the community at large, for few men were more favorably or widely known.

Mr. ALMS was a product of our public schools. After leaving Woodward High School he became a clerk in the store of his uncle, and on the breaking out of the Civil War he enlisted and served with credit until its close.

The business of the Alms & Doepke Company was started in a small way on September 4, 1865, on Main Street, on part of the present site of their buildings, and has steadily grown until it has reached colossal proportions.

Although Mr. ALMS gave his personal attention to the conduct of the affairs of this extensive enterprise, he gave his time also to many others, notably the Argonaut Cotton Company, of Covington, of which he was President.

He was a Director of the B. & O. S. W. Railway and the Grand Hotel Company.

Mr. ALMS was proud of his German ancestry, and united with his German fellow citizens in furthering the various charities in which they were interested, and many of which owe their existence largely to the generous aid and support given by him. He was a patriotic as well as public-spirited citizen, loyal to his country and native city—a true American in the broadest sense of that term. Mr. ALMS, beginning at the lowest rung of the ladder, had by dint of energy and industry, combined with rare business sagacity, reached the very top, occupying a commanding position in the business world.

He was connected with the following leading charitable and public institutions:

Director in the College of Music, the Young Men's Christian Association, the Altenheim and the Bodmann Widows' Home, Treasurer of the Associated Charities, and President of the German Kindergarten Association.

He had been, until recently, President of the Saengerfest Association, and Trustee of the Cincinnati Hospital, and was Chairman of the Committee on Fireworks Display for the G. A. R. Encampment. He had also been President of the Y. M. M. L. Association, a Director in the Main Street Railroad Company, and was very active in his support of the German Deaconess Home.

Mr. ALMS belonged to no secret society, but was a member of the G. A. R., having been a charter member of the Jones Post, and at one time its President.

His contributions to charity, educational interests and art were many, but it was music which most deeply appealed to his sympathy, and he gave generous support to every movement looking to its development. He was especially interested in the College of Music and the Cincinnati Orchestra Association, giving to the pupils of the former free admission tickets to the Symphony Concerts, and furnishing season tickets at a nominal cost to all students and teachers of music, so as to make it possible for them also to have the pleasure of hearing them. Mr. ALMS stood for everything which was for the good of his beloved city, and was ever willing to give his time and means to further the public good. He was in no sense a politician, and never held public office, although frequently importuned to allow his name to go before the public.

Mr. ALMS was genial and kindly in his disposition and was easy of approach. He was an honorable merchant, a brave soldier, a loyal comrade, a public-spirited citizen, and a public benefactor, who believed in educating and uplifting the people.

The loss of such a man to any community is well-nigh irreparable.

As a member of the Chamber of Commerce he took deep interest in its work, and he was always ready to use his influence in maintaining the highest position and credit of the body.

The Germans of this city will miss him, for he was their sincere friend; the various institutions with which he was connected will feel his loss, for he had awakened to the glory of giving, and from the abundance of his means he gave cheerfully and generously.

To quote the last words of his pastor and friend regarding him:

"Mr. ALMS lives not in the houses he has built, but in the good he has strewn on the pathway of life. It is a snare of wealth to lure the heart from noble things, but Mr. ALMS did not succumb to the temptation. As he prospered he grew more generous. His hand was always open. Young men knew him, as his generosity to the Young Men's Christian Association can testify. Old men knew him and blessed his beneficence in the Altenheim. The old soldiers knew him, for he was their comrade, their friend, and adviser. He was as accessible to the poor woman as to the capitalist. The people loved him."

From our finite standpoint it seems as if he had been removed from this world just as his greatest use was developing and his widest influence opening.

He had come to the conclusion that he had accumulated all the wealth that he desired, and had expressed a determination to use his entire income for the remainder of his life in works of a charitable and public character.

Had he lived he would doubtless have attained the reputation of our most public-spirited citizen.

To us he seems to have been taken just when he was about to enter upon a broader field, and an even larger life of usefulness, and his loss to the city is all the greater and his place harder to fill.

HERMAN GOEPPER,	} Committee.
WILLIAM N. HOBART,	
FRANKLIN ALTER,	
ALBERT B. VOORHEIS,	
JOHN A. KREIS,	
W. A. HOPPLE,	
W. A. GOODMAN, JR.,	

JULIUS DEXTER. DIED OCTOBER 21, 1898.

JULIUS DEXTER, a member of the Cincinnati Chamber of Commerce and Merchants' Exchange for many years, was born September 23, 1840, and died Friday evening, October 21, 1898. He was graduated at Harvard College in 1860, studied law, and was admitted to the bar in this county, but after a few years left the practice, and from that time to his death devoted his time to the service of others in public and private capacities.

He was a member of the Ohio State Board of Equalization, of the Ohio Senate, President of the Ohio State Board of Commerce, and nominee for Governor of the State on the Gold Democratic ticket. At different times he was Trustee of the Cincinnati College, of the Observatory of Cincinnati, of the Music Hall, of the College of Music of Cincinnati, of the Cincinnati Musical Festival Association, Treasurer and Director of the Cincinnati Art Museum Association, President of the Commercial Club, President of the Literary Club, of the Harvard Club, Treasurer of the Archæological Society, President of the Cincinnati, Hamilton & Dayton Railroad Company, during a critical period of its history, and First President of the Fidelity Safe Deposit and Trust Company.

At the time of his death he was President of the Board of Sinking Fund Trustees of the City of Cincinnati, of which body he had been a member continuously since 1879, rendering invaluable service to the financial affairs and credit of the city. He was also Treasurer of the Museum Association, of the Historical Society, President of the State Board of Commerce and Treasurer of the Queen City Club.

He was never married. He was a man of dignified and courtly bearing, of marked simplicity, and accessible to all, and ever ready to respond to any call for advice or assistance. He was noted for his uprightness, and his character was without spot or blemish. In that happy combination of integrity, usefulness and devotion to the many duties thrust upon him and cheerfully assumed, in his modest charity and public spirit, he was without a peer in the city to whose interest and development he devoted his time, his strength and his talents. He was inflexible in all matters that his judgment and sense of right commended. Criticism, often unkind, did not swerve him; his mentality was as sturdy as was his body. The purity of his life was exceptionable, and in this respect alone he set an example of the noblest type of manhood.

Deeply sensible of the loss that has come upon this city, upon so many of its public and charitable organizations, and upon every citizen of the city, the Chamber directs this tribute to his memory to be entered upon its minutes.

DRAUSIN WULSIN,	} Committee.
THOMAS J. EMERY,	
HENRY C. URNER,	
WILLIAM N. HOBART,	
C. B. MURRAY,	
HERMAN GOEPPER,	
THORNTON M. HINKLE,	
C. M. HOLLOWAY,	
CHAS. H. KELLOGG,	

JOHN C. ROTH. DIED NOVEMBER 12, 1898.

Mr. JOHN C. ROTH was born in Bavaria, Germany, in 1832, and at his death, which occurred November 12, 1898, was sixty-six years of age. Mr. Roth came to Cincinnati in 1852, and after working for a time in a subordinate capacity, he, with a small capital, engaged in the meat-curing business about the year 1860. By constant care and close attention he acquired the art of manufacturing bacon and hams of such fine quality and flavor as at once established for his cure a high reputation, and thus early laid the foundation of his fortune and of the immense business he controlled at the time of his death.

Mr. ROTH in the early sixties formed a partnership with Mr. John Anderegg, and the pork-packing firm of Anderegg & Roth continued until the death of the senior partner, when the business was incorporated under the title of the Roth-Meyer Packing Company. This company was very successful and the trade was largely increased. Mr. Meyer withdrew from the company in 1892, and the business was thence continued by Mr. ROTH and his sons, as the John C. Roth Packing Company, up to the time of Mr. ROTH's death.

JOHN C. ROTH was an extraordinary man. By his untiring and close application to business he built up the largest ham trade in the country. His goods were sought for everywhere and commanded a premium over other brands of meat. He spared no labor or expense in catering to the wants of the trade. He required his goods to be manufactured under his own supervision, and as a result the mild cure and fine flavor of his brand of meats brought it into popular favor everywhere.

Although extremely modest and retiring in his disposition, he was broad-minded and liberal, and a most generous contributor publicly and privately to every good and worthy cause. While tempting inducements were offered him to remove his business elsewhere, he declined to leave Cincinnati, having full confidence in the future of the city in which he had amassed a fortune. Although honored by his fellow citizens in being elected to a responsible and honorable office, the duties of which he had just assumed at the time of his death, he had no taste for public life, preferring to devote his time to his own private affairs. The death of such a man is an irreparable loss to this community, but he leaves a bright example of how honesty, energy and courage will overcome all obstacles and bring success, without the advantages of inherited wealth or liberal education.

The Chamber of Commerce extends the heartfelt sympathy of its members to the bereaved family in this time of sorrow and distress.

MICHAEL RYAN,	}	<i>Committee.</i>
ADOLPH SANDER,		
JACOB VOGEL, JR.,		
H. H. MEYER,		
O. B. FARRELLY,		
GEORGE H. BOHRER,		
J. V. MAESCHER,		

EMILE SCHMITT. DIED NOVEMBER 13, 1898.

EMILE SCHMITT, a prominent member of this Chamber for many years, died November 13, 1898, at his residence on Calhoun street, Cincinnati, aged forty-eight years.

Mr. SCHMITT was born in Helmar, Lorraine, October 21, 1851. His parents emigrated to this country two years later, and chose Cincinnati as their future home. It was here that Mr. SCHMITT was educated and passed his life.

After leaving school he was engaged for some years in mercantile business, but having married on September 7, 1876, a daughter of Mr. John Kauffman, one of the leading brewers of the city, he soon after became associated with his father-in-law, becoming the manager of the John Kauffman Brewing Company, which position he held until the company went into receivers' hands, when he was appointed by the court as one of the receivers, and he was acting in this capacity at the time of his death.

Mr. SCHMITT was quiet and unobtrusive in manner, but kindly and genial, of equable temperament and easy of approach. He was modest and retiring, had no political aspirations, and never held public office, but devoted his whole time and ability to his business, in the discharge of which he was very conscientious, winning the esteem of all with whom he came in contact. His competitors in business appreciated highly his fairness and uprightness, and he enjoyed their full confidence and respect.

A good citizen, an honorable business man, a devoted husband, and loving father, a kind and sincere friend and neighbor, is the heritage he has left his children, who were deprived all too soon of his wise counsel and companionship. The death of such a man is necessarily a serious loss to the community, and especially to our Association.

HERMAN GOEPPER, CHARLES WIEDEMANN, ROBERT A. DYKINS, H. A. EISFELDER, LEOPOLD KLEYBOLTE,	}	Committee.
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JOHN KENNETT. DIED DECEMBER 12, 1898.

GENERAL JOHN KENNETT is dead; and thus has passed from the activities of life the last survivor of the enterprising body of men who in 1839 initiated the work of establishing the Cincinnati Chamber of Commerce and Merchants' Exchange.

Thus early in the history of our city—when but thirty years of age—he became actively identified not only with one organization, but with all other undertakings inaugurated for the purpose of promoting the commercial and business interests of our city.

In partial recognition of his spotless character, his commercial integrity, his undaunted patriotism, and the interest he ever manifested in everything that would promote the best interests of our city, he was elected an honorary member of this Chamber, September 16, 1892.

GENERAL KENNETT was born in St. Petersburg, Russia, March 9, 1809, and early began his business career in the city of Cincinnati, where he died December 12, 1898.

At the outbreak of the Civil War he promptly responded to the country's call for troops, and in the fall of 1861 became commander of the Fourth Ohio Cavalry, with which he joined the army under General Buell, then operating in Kentucky. He led the advance and received the surrender of Nashville. Subsequently, moving southward, his regiment was the first Union force to occupy Decatur and Athens, Ala. Moving thence to a participation in the battles around Chattanooga, Bridgeport, Murfreesboro, and finally in a masterful manner covered the retrograde movement to Nashville.

His last crowning service was as commander of the First Cavalry Division of the Army of the Cumberland, with which he rendered meritorious and effective service in the closing campaign of the war.

He was a man of strict integrity of character, a brave and gallant soldier, a generous husband, and a worthy member of our organization.

We regretfully bid adieu to this enterprising citizen, gallant soldier, true friend and courteous gentleman.

A. HICKENLOOPER, HOWARD ECKERT, THOMAS MORRISON, S. F. DANA, ALBERT W. SCHELL, WM. H. CALVERT, W. H. LIPPINCOTT,	}	Committee.
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CALENDARS FOR FOUR YEARS.

1897	Sund.	Mon.	Tues.	Wed.	Thur.	Frid.	Satur.	1897	Sund.	Mon.	Tues.	Wed.	Thur.	Frid.	Satur.	1898	Sund.	Mon.	Tues.	Wed.	Thur.	Fri.	Satur.	1898	Sund.	Mon.	Tues.	Wed.	Thur.	Frid.	Satur.	
Jan.	3	4	5	6	7	1	2	July	4	5	6	7	1	2	3	Jan.	2	3	4	5	6	7	1	July	3	4	5	6	7	1	2	
10	11	12	13	14	15	16		11	12	13	14	15	16	17		9	10	11	12	13	14	15	10	11	12	13	14	15	16			
17	18	19	20	21	22	23		18	19	20	21	22	23	24		16	17	18	19	20	21	22	22	17	18	19	20	21	22	23		
24	25	26	27	28	29	30		25	26	27	28	29	30	31		23	24	25	26	27	28	29	29	24	25	26	27	28	29	30		
31								30	31							30	31						31									
Feb.	7	8	9	10	11	12	13	Aug.	1	2	3	4	5	6	7	Feb.	6	7	8	9	10	11	12	Aug.	7	8	9	10	11	12	13	
14	15	16	17	18	19	20	21	15	16	17	18	19	20	21		13	14	15	16	17	18	19	14	15	16	17	18	19	20	21		
21	22	23	24	25	26	27		22	23	24	25	26	27	28		20	21	22	23	24	25	26	20	21	22	23	24	25	26	27		
28								29	30	31						27	28						28	29	30	31						
Mar.	1	2	3	4	5	6		Sept.	1	2	3	4	5	6		Mar.	1	2	3	4	5	6	1	Sept.	4	5	6	7	8	9	10	
7	8	9	10	11	12	13		5	6	7	8	9	10	11		6	7	8	9	10	11	12	4	5	6	7	8	9	10	11		
14	15	16	17	18	19	20	21	12	13	14	15	16	17	18		13	14	15	16	17	18	19	11	12	13	14	15	16	17	18		
21	22	23	24	25	26	27		19	20	21	22	23	24	25		20	21	22	23	24	25	26	18	19	20	21	22	23	24	25		
28	29	30	31					26	27	28	29	30				27	28	29	30	31			25	26	27	28	29	30				
April	4	5	6	7	8	9	10	Oct.	3	4	5	6	7	8	9	April	3	4	5	6	7	8	9	Oct.	2	3	4	5	6	7	8	
11	12	13	14	15	16	17		10	11	12	13	14	15	16		10	11	12	13	14	15	16	10	11	12	13	14	15	16	17		
18	19	20	21	22	23	24		17	18	19	20	21	22	23		17	18	19	20	21	22	23	16	17	18	19	20	21	22	23		
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ay								31								24	25	26	27	28	29	30	30	31								
2	3	4	5	6	7	8		Nov.	1	2	3	4	5	6		May	1	2	3	4	5	6	7	Nov.	1	2	3	4	5	6		
9	10	11	12	13	14	15		7	8	9	10	11	12	13		8	9	10	11	12	13	14	8	9	10	11	12	13	14	15		
16	17	18	19	20	21	22		14	15	16	17	18	19	20		15	16	17	18	19	20	21	15	16	17	18	19	20	21	22		
23	24	25	26	27	28	29		21	22	23	24	25	26	27		22	23	24	25	26	27	28	22	23	24	25	26	27	28	29		
30	31							28	29	30						29	30	31					27	28	29	30						
June	6	7	8	9	10	11	12	Dec.					1	2	3	June				1	2	3	4	Dec.					1	2	3	
13	14	15	16	17	18	19		5	6	7	8	9	10	11		5	6	7	8	9	10	11	4	5	6	7	8	9	10	11		
20	21	22	23	24	25	26		12	13	14	15	16	17	18		12	13	14	15	16	17	18	11	12	13	14	15	16	17	18		
27	28	29	30					19	20	21	22	23	24	25		19	20	21	22	23	24	25	18	19	20	21	22	23	24	25		
								26	27	28	29	30	31			26	27	28	29	30			25	26	27	28	29	30	31			
1899	Sund.	Mon.	Tues.	Wed.	Thur.	Frid.	Satur.	1899	Sund.	Mon.	Tues.	Wed.	Thur.	Frid.	Satur.	1900	Sund.	Mon.	Tues.	Wed.	Thur.	Frid.	Satur.	1900	Sund.	Mon.	Tues.	Wed.	Thur.	Frid.	Satur.	
Jan.	1	2	3	4	5	6	7	July							1	Jan.	1	2	3	4	5	6	July	1	2	3	4	5	6	7		
8	9	10	11	12	13	14		2	3	4	5	6	7	8		7	8	9	10	11	12	13	8	9	10	11	12	13	14			
15	16	17	18	19	20	21		9	10	11	12	13	14	15		14	15	16	17	18	19	20	15	16	17	18	19	20	21			
22	23	24	25	26	27	28		16	17	18	19	20	21	22		21	22	23	24	25	26	27	22	23	24	25	26	27	28			
29	30	31						30	31							28	29	30	31				29	30	31							
Feb.	5	6	7	8	9	10	11	Aug.							1	Feb.							1									
12	13	14	15	16	17	18		6	7	8	9	10	11	12		4	5	6	7	8	9	10	4	5	6	7	8	9	10	11		
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26	27	28						20	21	22	23	24	25	26		18	19	20	21	22	23	24	19	20	21	22	23	24	25	26		
Mar.	5	6	7	8	9	10	11	Sept.							1	Mar.							1									
12	13	14	15	16	17	18		3	4	5	6	7	8	9		4	5	6	7	8	9	10	2	3	4	5	6	7	8	9		
19	20	21	22	23	24	25		10	11	12	13	14	15	16		11	12	13	14	15	16	17	9	10	11	12	13	14	15	16		
26	27	28	29	30	31			17	18	19	20	21	22	23		18	19	20	21	22	23	24	16	17	18	19	20	21	22			
April	2	3	4	5	6	7		24	25	26	27	28	29	30		25	26	27	28	29	30	31	23	24	25	26	27	28	29			
May	1	2	3	4	5	6		Oct.							1	April							1									
7	8	9	10	11	12	13		3	4	5	6	7	8	9		8	9	10	11	12	13	14	7	8	9	10	11	12	13			
14	15	16	17	18	19	20		10	11	12	13	14	15	16		15	16	17	18	19	20	21	14	15	16	17	18	19	20	21		
21	22	23	24	25	26	27		17	18	19	20	21	22	23		22	23	24	25	26	27	28	21	22	23	24	25	26	27			
28	29	30	31					29	30	31						29	30						28	29	30	31						
June	4	5	6	7	8	9	10	Nov.							1	May							1									
11	12	13	14	15	16	17		5	6	7	8	9	10	11		6	7	8	9	10	11	12	4	5	6	7	8	9	10			
18	19	20	21	22	23	24		12	13	14	15	16	17	18		13	14	15	16	17	18	19	11	12	13	14	15	16	17			
25	26	27	28	29	30			19	20	21	22	23	24	25		20	21	22	23	24	25	26	18	19	20	21	22	23	24	25		
								26	27	28	29	30				27	28	29	30	31			25	26	27	28	29	30				
								Dec.							1	June							1									
								3	4	5	6	7	8	9		3	4	5	6	7	8	9	2	3	4	5	6	7	8			
								10	11	12	13	14	15	16		10	11	12	13	14	15	16	9	10	11	12	13	14	15			
								17	18	19	20	21	22	23		17	18	19	20	21	22	23	16	17	18	19	20	21	22			
								24	25	26	27	28	29	30		24	25	26	27	28	29	30	23	24	25	26	27	28	29			
								31								31							30	31								



